



## Synthetic Division Setup - Complete the Quotient Row

|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|--|----|-----|-----|-----|-----|----|----|--|--|--|--|---|---|---|---|--|---|---|---|---|---|--|---|----|----|---|----|----|--|---|---|---|----|----|---|---|--|----|---|---|----|--|---|--|---|----|----|-----|---|----|----|--|---|----|---|---|---|---|-----|----|----|-----|----|----|---|--|---|---|---|----|--|----|---|---|---|---|---|---|----|----|---|---|---|--|----|----|----|----|--|--|---|----|----|---|--|---|--|----|----|----|---|--|--|---|----|----|---|--|---|---|----|----|----|-----|--|---|----|---|---|--|--|
| <p><b>1</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^4 - 5x^2 + 4}{(x - 2)}$ <table border="1" style="margin-left: 20px;"> <tr><td>2</td><td>1</td><td>0</td><td>-5</td><td>0</td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table>   | 2  | 1   | 0   | -5  | 0   | 4  |    |  |  |  |  |   |   | ? | ? | ?  | ? | ? | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>-2</td><td>-1</td><td>2</td><td>1</td><td></td></tr> </table> |   |   |  |   |    |    | 0 | -2 | -1 | 2  | 1 |   | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>2</td><td>-1</td><td>-2</td><td>0</td><td></td></tr> </table> |    |    |   |   |  |    | 2 | 2 | -1 | -2   | 0 |  | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>2</td><td>-1</td><td>-2</td><td>0</td><td></td></tr> </table> |    |    |     |   |    |    | 1  | 2 | -1 | -2  | 0 |   | <p><b>2</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^4 - x^3 - 9x^2 + 9x}{(x + 2)}$ <table border="1" style="margin-left: 20px;"> <tr><td>-2</td><td>1</td><td>-1</td><td>-9</td><td>9</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table> | -2  | 1  | -1 | -9  | 9  | 0  |   |  |   |   |   |    |  | ?  | ? | ? | ? | ? | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>-3</td><td>-3</td><td>15</td><td>30</td><td></td></tr> </table> |   |    |    |   |   |   | 1  | -3 | -3 | 15 | 30 |  | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-30</td><td>15</td><td>-3</td><td>-3</td><td>1</td><td></td></tr> </table> |   |    |    |   |  |   | -30  | 15 | -3 | -3 | 1 |  | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>-3</td><td>-3</td><td>15</td><td>-30</td><td></td></tr> </table> |   |    |    |   |  |   | 1 | -3 | -3 | 15 | -30 |  |   |    |   |   |  |  |
| 2  | 1  | 0   | -5  | 0   | 4   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   | ?   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | -2 | -1  | 2   | 1   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | 2  | -1  | -2  | 0   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | 2  | -1  | -2  | 0   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| -2   | 1  | -1  | -9  | 9   | 0   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   | ?   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | -3 | -3  | 15  | 30  |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| -30  | 15 | -3  | -3  | 1   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | -3 | -3  | 15  | -30 |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| <p><b>3</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^3 - 9x}{(x - 0)}$ <table border="1" style="margin-left: 20px;"> <tr><td>0</td><td>1</td><td>0</td><td>-9</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table>  | 0  | 1   | 0   | -9  | 0   |    |    |  |  |  |  | ? | ? | ? | ? | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>0</td><td>-9</td><td>0</td><td></td><td></td></tr> </table>  |   |   |   |   |   |  | 1 | 0  | -9 | 0 |    |    | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>0</td><td>-9</td><td>0</td><td></td><td></td></tr> </table>  |   |   |   |    |    |   | 2 | 0  | -9 | 0 |   |    | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>-9</td><td>0</td><td>1</td><td></td><td></td></tr> </table>  |   |  |   |    |    |     | 0 | -9 | 0  | 1  |   |    | <p><b>4</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^3 - x^2 - 2x}{(x - 0)}$ <table border="1" style="margin-left: 20px;"> <tr><td>0</td><td>1</td><td>-1</td><td>-2</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table>          | 0 | 1 | -1  | -2  | 0  |    |     |    |    |   |  | ?   | ? | ? | ?  | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>-1</td><td>-2</td><td>0</td><td></td><td></td></tr> </table> |    |   |   |   |   |   | 2 | -1 | -2 | 0 |   |   | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>-2</td><td>-1</td><td>1</td><td></td><td></td></tr> </table> |    |    |    |    |  |  | 0 | -2 | -1 | 1 |  |   | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>-1</td><td>-2</td><td>0</td><td></td><td></td></tr> </table> |    |    |    |   |  |  | 1 | -1 | -2 | 0 |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | 1  | 0   | -9  | 0   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | 0  | -9  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | 0  | -9  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | -9 | 0   | 1   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | 1  | -1  | -2  | 0   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | -1 | -2  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | -2 | -1  | 1   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | -1 | -2  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| <p><b>5</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^3 - 2x^2 - 3x}{(x - 0)}$ <table border="1" style="margin-left: 20px;"> <tr><td>0</td><td>1</td><td>-2</td><td>-3</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table>  | 0  | 1   | -2  | -3  | 0   |    |    |  |  |  |  | ? | ? | ? | ? | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>-2</td><td>-3</td><td>0</td><td></td><td></td></tr> </table> |   |   |   |   |   |  | 2 | -2 | -3 | 0 |    |    | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>-2</td><td>-3</td><td>0</td><td></td><td></td></tr> </table> |   |   |   |    |    |   | 1 | -2   | -3 | 0 |   |    | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>-3</td><td>-2</td><td>1</td><td></td><td></td></tr> </table> |   |  |   |    |    |     | 0 | -3 | -2 | 1  |   |    | <p><b>6</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^3 - 2x^2 - 11x + 12}{(x - 4)}$ <table border="1" style="margin-left: 20px;"> <tr><td>4</td><td>1</td><td>-2</td><td>-11</td><td>12</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table> | 4 | 1 | -2  | -11 | 12 |    |     |    |    |   |  | ?   | ? | ? | ?  | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>2</td><td>-3</td><td>0</td><td></td><td></td></tr> </table>  |    |   |   |   |   |   | 1 | 2  | -3 | 0 |   |   | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>-3</td><td>2</td><td>1</td><td></td><td></td></tr> </table>  |    |    |    |    |  |  | 0 | -3 | 2  | 1 |  |   | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>2</td><td>-3</td><td>0</td><td></td><td></td></tr> </table>  |    |    |    |   |  |  | 2 | 2  | -3 | 0 |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | 1  | -2  | -3  | 0   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | -2 | -3  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | -2 | -3  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | -3 | -2  | 1   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 4  | 1  | -2  | -11 | 12  |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | 2  | -3  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | -3 | 2   | 1   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | 2  | -3  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| <p><b>7</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^5 + 2x^4 - 9x^3 - 14x^2 + 20x + 24}{(x + 1)}$ <table border="1" style="margin-left: 20px;"> <tr><td>-1</td><td>1</td><td>2</td><td>-9</td><td>-14</td><td>20</td><td>24</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table> | -1 | 1   | 2   | -9  | -14 | 20 | 24 |  |  |  |  |   |   |   |   | ?  | ? | ? | ?   | ? | ? | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>1</td><td>-10</td><td>-4</td><td>24</td><td>0</td><td></td></tr> </table> |   |    |    |   |    |    |  | 1 | 1 | -10   | -4 | 24 | 0 |   | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>24</td><td>-4</td><td>-10</td><td>1</td><td>1</td><td></td></tr> </table> |    |   |   |    |  |   |  | 0   | 24 | -4 | -10 | 1 | 1  |    | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>1</td><td>-10</td><td>-4</td><td>24</td><td>0</td><td></td></tr> </table> |   |    |   |   |   |   |     | 2  | 1  | -10 | -4 | 24 | 0 |  | <p><b>8</b> Using synthetic division to divide this polynomial by this binomial, which values complete the bottom row of the synthetic division?</p> $\frac{x^3 - 2x^2 - 16x + 32}{(x - 4)}$ <table border="1" style="margin-left: 20px;"> <tr><td>4</td><td>1</td><td>-2</td><td>-16</td><td>32</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>?</td><td>?</td><td>?</td><td>?</td></tr> </table> | 4 | 1 | -2 | -16  | 32 |   |   |   |   |   |   | ?  | ?  | ? | ? | <p><b>A</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>1</td><td>2</td><td>-8</td><td>0</td><td></td><td></td></tr> </table> |  |    |    |    |    |  | 1  | 2 | -8 | 0  |   |  | <p><b>B</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>2</td><td>-8</td><td>0</td><td></td><td></td></tr> </table> |  |    |    |    |   |  | 2  | 2 | -8 | 0  |   |  | <p><b>C</b></p> <table border="1" style="width: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>0</td><td>-8</td><td>2</td><td>1</td><td></td><td></td></tr> </table> |   |    |    |    |     |  | 0 | -8 | 2 | 1 |  |  |
| -1   | 1  | 2   | -9  | -14 | 20  | 24 |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   | ?   | ?  |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | 1  | -10 | -4  | 24  | 0   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | 24 | -4  | -10 | 1   | 1   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | 1  | -10 | -4  | 24  | 0   |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 4  | 1  | -2  | -16 | 32  |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  | ?  | ?   | ?   | ?   |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 1  | 2  | -8  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 2  | 2  | -8  | 0   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
|  |    |     |     |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |
| 0  | -8 | 2   | 1   |     |     |    |    |  |  |  |  |   |   |   |   |  |   |   |   |   |   |  |   |    |    |   |    |    |  |   |   |   |    |    |   |   |  |    |   |   |    |  |   |  |   |    |    |     |   |    |    |  |   |    |   |   |   |   |     |    |    |     |    |    |   |  |   |   |   |    |  |    |   |   |   |   |   |   |    |    |   |   |   |  |    |    |    |    |  |  |   |    |    |   |  |   |  |    |    |    |   |  |  |   |    |    |   |  |   |   |    |    |    |     |  |   |    |   |   |  |  |