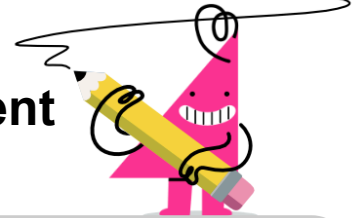




## Synthetic Division Setup - First Quotient Value



1 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^3 + 2x^2}{(x + 2)}$$

-2	1	2	0	0
	?			

A	B	C
9	2	10
D	E	F
4	0	1

2 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^3 + 4x^2 - 16x - 64}{(x - 4)}$$

4	1	4	-16	-64
	?			

A	B	C
10	6	9
D	E	F
5	1	2

3 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^4 - 4x^3 - x^2 + 16x - 12}{(x - 1)}$$

1	1	-4	-1	16	-12
	?				

A	B	C
6	9	2
D	E	F
0	1	10

4 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^3 - 5x^2 + 2x + 8}{(x - 4)}$$

4	1	-5	2	8
	?			

A	B	C
7	1	9
D	E	F
2	6	10

5 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^3 + 2x^2 - 8x}{(x + 4)}$$

-4	1	2	-8	0
	?			

A	B	C
3	0	5
D	E	F
8	6	1

6 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^4 + 9x^3 + 27x^2 + 31x + 12}{(x + 1)}$$

-1	1	9	27	31	12
	?				

A	B	C
7	5	9
D	E	F
1	2	3

7 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^3 + 2x^2 - 8x}{(x - 3)}$$

3	1	2	-8	0
	?			

A	B	C
3	7	4
D	E	F
1	2	0

8 Using synthetic division to divide this polynomial by this binomial, which value is brought down into the first box of the bottom row?

$$\frac{x^3 - 4x^2 - x + 4}{(x + 1)}$$

-1	1	-4	-1	4
	?			

A	B	C
1	10	7
D	E	F
4	8	5