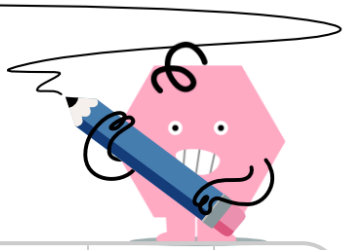
Name

Synthetic Division Setup - Single Coefficient, In Order



1 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

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

1	?	-3	0	0

A 9 | B 7 | C 2

D 1 | E 6 | F 4

2 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^4 - 5x^3 + 20x - 16}{(x-2)}$$

2	1	-5	0	?	-16

A 30 | B 20 | C 0

D 18 | E 38 | F 10

3 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^3 - 7x^2 + 15x - 9}{(x-1)}$$

1	1	?	15	-9

A 6 | B -7 | C 16

D 17 | E 3 | F 2

4 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^3 + 7x^2 + 14x + 8}{(x+1)}$$

-1	1	?	14	8

A 7 | B 11 | C 10

D 1 | E 14 | F 15

5 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^4 + 2x^3 - x^2 - 2x}{(x-0)}$$

0	1	2	-1	-2	?

A 2 | B 7 | C 0

D 3 | E 1 | F 6

6 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^3 - 7x^2 + 15x - 9}{(x-1)}$$

1	1	-7	15	?

A -9 | B 7 | C 4

D 9 | E 16 | F 1

7 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^5 + 5x^4 - 7x^3 - 53x^2 - 18x + 72}{(x-1)}$$

1	?	5	-7	-53	-18	72

A 4 | B 0 | C 1

D 5 | E 3 | F 7

8 Using synthetic division to divide this polynomial by this binomial, which value goes in the highlighted box of the top row?

$$\frac{x^3 + 4x^2 + x - 6}{(x-1)}$$

1	1	4	1	?

A -6 | B 4 | C 6

D 2 | E 10 | F 3