Name

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 9 B 2 C 10

D 4 E 0 F 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 10 B 6 C 9

D 5 E 1 F 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 6 B 9 C 2

D 0 E 1 F 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 7 B 1 C 9

D 2 E 6 F 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 3 B 0 C 5

D 8 E 6 F 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 7 B 5 C 9

D 1 E 2 F 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 3 B 7 C 4

D 1 E 2 F 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 1 B 10 C 7

D 4 E 8 F 5