Name

Synthetic Division Setup - Full Setup, Random Order

1 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

$$\frac{24x - 23x^2 + 144 + x^4 - 2x^3}{(x-1)}$$

?	?	?	?	?	?

A

-1	1	-2	-23	24	144

B

-1	144	24	-23	-2	1

C

1	1	-2	-23	24	144

D

1	144	24	-23	-2	1

2 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

$$\frac{-18 + 21x - 8x^2 + x^3}{(x-2)}$$

?	?	?	?	?

A

2	1	-8	21	-18

B

2	-18	21	-8	1

C

-2	-18	21	-8	1

D

-2	1	-8	21	-18

3 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

$$\frac{-6 + x^3 - 7x}{(x+1)}$$

?	?	?	?	?

A

1	1	0	-7	-6

B

1	-6	-7	0	1

C

-1	-6	-7	0	1

D

-1	1	0	-7	-6

4 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

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

?	?	?	?	?

A

-3	1	0	-4	0

B

3	1	0	-4	0

C

3	0	-4	0	1

D

-3	0	-4	0	1

5 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

$$\frac{x^3 - 48 + 3x^2 - 16x}{(x+4)}$$

?	?	?	?	?

A

-4	1	3	-16	-48

B

4	1	3	-16	-48

C

-4	-48	-16	3	1

D

4	-48	-16	3	1

6 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

$$\frac{6 + x^3 - 2x^2 - 5x}{(x+3)}$$

?	?	?	?	?

A

3	6	-5	-2	1

B

3	1	-2	-5	6

C

-3	1	-2	-5	6

D

-3	6	-5	-2	1

7 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

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

?	?	?	?	?	?

A

2	0	0	4	4	1

B

-2	0	0	4	4	1

C

2	1	4	4	0	0

D

-2	1	4	4	0	0

8 Using synthetic division to divide this polynomial by this binomial, which divisor and set of coefficients correctly set up the synthetic division?

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

?	?	?	?	?

A

-2	1	-7	14	-8

B

-2	-8	14	-7	1

C

2	-8	14	-7	1

D

2	1	-7	14	-8