



Name _____ Class _____ Date _____

1 The expression $2x^2$ is a type of polynomial called a **binomial**.

True or false?

- A true
- B false

2 The polynomial, $6x^2 + 4x^3 + 2x + 1$, is written in **standard form**.

True or false?

- A true
- B false

3 Add the polynomials:

$$(x^3 + 2x^2 + x + 5) + (2x^3 + x^2 + 4x + 1)$$

- A $2x^3 + 2x^2 + 4x + 6$

4 Add the polynomials:

$$(2x^3 - 4x^2 + x - 5) + (7x^3 - 2x^2 + 2x + 4)$$

- A $5x^3 - 2x^2 + 3x - 9$

5



PREVIEW

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7

- B $-3x^3 + x^2 + 2x$
- C $-3x^3 + x^2$
- D $-3x^3 + 3x^2 + 2x$

- B $x^3 - 4x^2 - 7$
- C $x^3 - 2x^2 + 2x - 7$
- D $5x^3 - 2x^2 + 2x - 7$

9

Add the polynomials using the vertical format:

$$\begin{array}{r} 6x^3 + 2x - 9 \\ + (-4x^3 + 3x - 7) \\ \hline \end{array}$$

- A $-2x^3 + 5x - 16$
- B $10x^3 + 5x - 2$
- C $2x^3 + 5x - 16$
- D $10x + 5x - 16$

10

Subtract the polynomials using the vertical format:

$$\begin{array}{r} x^4 + 2x^3 + x - 6 \\ - (x^4 + 4x + 3) \\ \hline \end{array}$$

- A $2x^3 - 3x - 9$
- B $2x^4 + 2x^3 - 3x - 9$
- C $2x^3 + 5x - 3$
- D $2x^4 + 2x^3 - 3x - 3$



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(C)

4 Add the polynomials:

$$(2x^3 - 4x^2 + x - 5) + (7x^3 - 2x^2 + 2x + 4)$$

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(D)

5



(A)

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(C)

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Subtract the polynomials using the vertical format:

$$\begin{array}{r} x^4 + 2x^3 + x - 6 \\ - (x^4 + 4x + 3) \\ \hline \end{array}$$

- A $2x^3 - 3x - 9$
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- C $2x^3 + 5x - 3$
- D $2x^4 + 2x^3 - 3x - 3$

(A)