



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 What is  $3x^8 \cdot 9x^0$ ?

- A  $27x^9$
- B  $27x^8$
- C  $12x^9$
- D  $12x^8$

3 Multiply the monomial by the polynomial:

$$x^3(x^4 + 2x^2 - 6x - 4)$$

- A  $x^7 + 2x^5 - 6x^4 - 4x^3$
- B  $x^7 + 2x^6 - 6x^3 - 4$

5



## PREVIEW

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7

- A  $5.49 \times 10^9$
- B  $5.49 \times 10^5$
- C  $5.49 \times 10^{-5}$
- D  $5.49 \times 10^{-4}$

9

What is  $(2.5 \times 10^3)(0.3 \times 10^7)$  in correct scientific notation?

- A  $.75 \times 10^{10}$
- B  $7.5 \times 10^{11}$
- C  $7.5 \times 10^9$
- D  $7.5 \times 10^{10}$

2 Multiply the monomial by the trinomial:

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

- A  $5x^3 + 15x - 10$
- B  $5x^2 + 15x - 10$
- C  $5x^3 + 15x^2 - 10x$
- D  $5x^3 + 3x^2 - 10x$

4 Multiply using the FOIL method:

$$(2x + 6)(4x + 1)$$

- A  $6x^2 + 24x + 6$
- B  $8x^2 + 22x + 6$
- C  $6x^2 + 22x + 6$

10 What is  $(3.6 \times 10^{-2})(1.2 \times 10^5)$  in correct scientific notation?

- A  $4.32 \times 10^{-10}$
- B  $4.32 \times 10^3$
- C  $4.32 \times 10^7$
- D  $4.32 \times 10^{10}$



## ANSWER KEY

What is  $3x^8 \cdot 9x^0$ ?

- A  $27x^9$
- B  $27x^8$
- C  $12x^9$
- D  $12x^8$

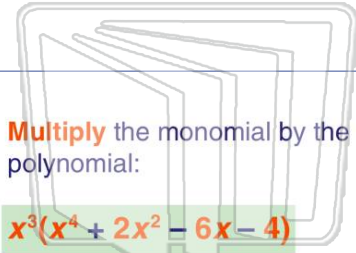
(b)

Multiply the monomial by the trinomial:

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

(c)

- A  $5x^3 + 15x - 10$
- B  $5x^2 + 15x - 10$
- C  $5x^3 + 15x^2 - 10x$
- D  $5x^3 + 3x^2 - 10x$



Multiply the monomial by the polynomial:

$x^3(x^4 + 2x^2 - 6x - 4)$

- A  $x^7 + 2x^5 - 6x^4 - 4x^3$
- B  $x^7 + 2x^6 - 6x^3 - 4$
- C  $x^{12} + 2x^6 - 6x^3 - 4$

(a)

Multiply using the FOIL method:

$(2x + 6)(4x + 1)$

(d)

- A  $6x^2 + 24x + 6$
- B  $8x^2 + 22x + 6$
- C  $6x^2 + 22x + 6$
- D  $8x^2 + 26x + 6$



## PREVIEW

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- C  $5.49 \times 10$
- D  $5.49 \times 10^{-4}$

- A true
- B false

What is  $(2.5 \times 10^3)(0.3 \times 10^7)$  in correct scientific notation?

- A  $.75 \times 10^{10}$
- B  $7.5 \times 10^{11}$
- C  $7.5 \times 10^9$
- D  $7.5 \times 10^{10}$

(c)

What is  $(3.6 \times 10^{-2})(1.2 \times 10^5)$  in correct scientific notation?

- A  $4.32 \times 10^{-10}$
- B  $4.32 \times 10^3$
- C  $4.32 \times 10^7$
- D  $4.32 \times 10^{10}$

(b)