

All Three Forms of a Quadratic Equation

Name _____ Period: _____ Date: _____

Directions: Use the information given to solve each problem.

1. Which quadratic expression is equivalent to $(x+5)(x-2)$?

- A) $x^2 + 5x - 2$
- B) $x^2 + 3x - 10$
- C) $(x+3)^2 - 4$
- D) $(x+7)^2 - 9$

2. Which quadratic expression is equivalent to $(x-4)(x+6)$?

- A) $x^2 - 10x + 24$
- B) $x^2 + 10x - 24$
- C) $(x+1)^2 - 25$
- D) $(x+5)^2 - 25$

3. Which quadratic expression is equivalent to $(x+2)(x+8)$?

- A) $x^2 + 10x + 16$
- B) $x^2 + 6x + 16$
- C) $(x+5)^2 + 1$
- D) $(x+7)^2 - 1$

4. Which quadratic expression is equivalent to $(x + 3)(x - 4)$?

- A. $x^2 - x - 7$
- B. $x^2 + x - 12$
- C. $(x - 0.5)^2 - 12.25$
- D. $(x + 0.5)^2 - 11.75$

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Answer Key

1. Which quadratic expression is equivalent to $(x+5)(x-2)$?

A) $x^2 + 5x - 2$

B) $x^2 + 3x - 10$

C) $(x+3)^2 - 4$ **B**

D) $(x+7)^2 - 9$

2. Which quadratic expression is equivalent to $(x-4)(x+6)$?

A) $x^2 - 10x + 24$

B) $x^2 + 10x - 24$ **C**

C) $(x+1)^2 - 25$

D) $(x+5)^2 - 25$

3. Which quadratic expression is equivalent to $(x+2)(x+8)$?

A) $x^2 + 10x + 16$

B) $x^2 + 6x + 16$ **A**

C) $(x+5)^2 + 1$

D) $(x+7)^2 - 1$

4. Which quadratic expression is equivalent to $(x + 3)(x - 4)$?

A. $x^2 - x - 7$

B. $x^2 + x - 12$ **C**

C. $(x - 0.5)^2 - 12.25$

D. $(x + 0.5)^2 - 11.75$