

Name.....Period.....

1.

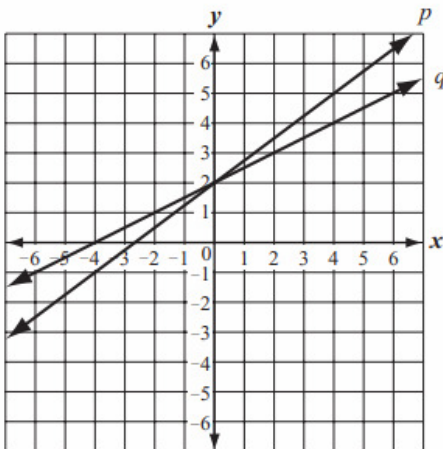
What are the solutions to the system of equations below?

$$\begin{aligned}3y &= x - 2 \\ y &= -2x + 4\end{aligned}$$

- A. $x = 0$; $y = 2$
- B. $x = 1$; $y = -2$
- C. $x = 2$; $y = 0$
- D. $x = -2$; $y = 4$

2.

- 9 Line p and line q are shown on the coordinate grid below.



Which of the following statements best describes the lines?

- A. Line p has the same slope as line q .
- B. Line p has a greater slope than line q .
- C. The y -intercept of line p is greater than the y -intercept of line q .
- D. The x -intercept of line q is greater than the x -intercept of line p .

3.

Which of the following is equivalent to the expression below?

$$(p - 4)(p + 2)$$

A. $p^2 - 2p - 8$

B. $p^2 - 4p - 2$

C. $p^2 - 8$

D. $p^2 - 2$

4.

Which of the following values of x is a solution of the equation below?

$$x^2 = 256$$

A. -4

B. -16

C. 128

D. 512

5.

Which of the following is equivalent to the expression below?

$$x^2 - 144$$

A. $(x - 1)(x - 144)$

B. $(x - 1)(x + 144)$

C. $(x - 12)(x - 12)$

D. $(x - 12)(x + 12)$