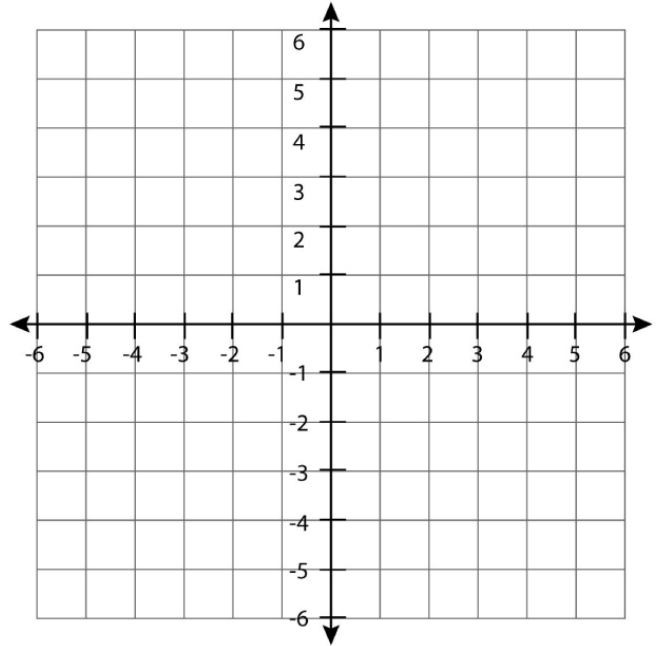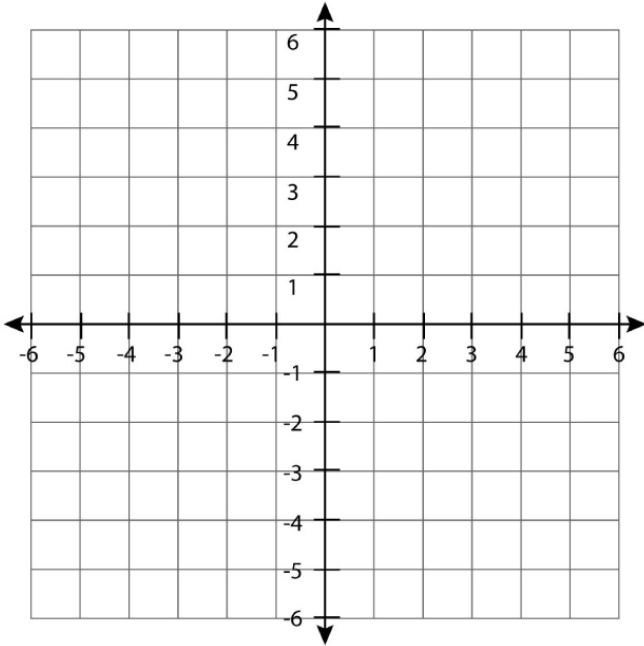# Graphing Systems of Equations Worksheet

Solve each system by graphing.

① $y = \dfrac{-1}{2}x - 2$

$y = \dfrac{-1}{2}x + 2$

② $y = \dfrac{-1}{4}x - 2$

$y = x + 3$

Solve each system by using the substitution method.

③ $x = -2y$
$x - y = 9$

④ $3x - 4y = 10$
$2y + 4x = 6$

⑤ $y = x + 5$
$y = -2x - 4$

Solve each system by using the elimination method.
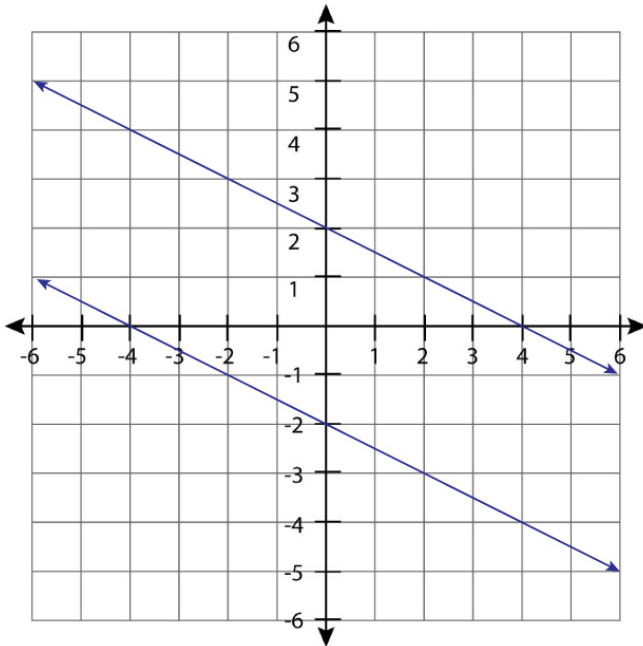
⑥ $8x + y = -16$
$-3x + y = -5$

⑦ $5x + 4y = -14$
$3x + 6y = 6$

⑧ $-6x + 5y = -1$
$6x + 4y = -10$
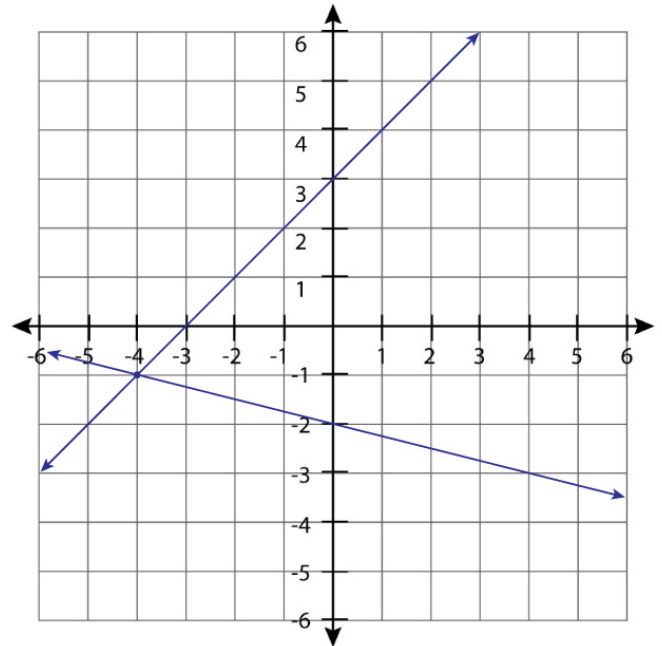
Graphing Systems of Equations Worksheet

Answers

① $y = \dfrac{-1}{2}x - 2$

  $y = \dfrac{-1}{2}x + 2$

② $y = \dfrac{-1}{4}x - 2$

  $y = x + 3$

No solution

$x = -4, y = -1$

Solve each system by using the substitution method.

③ $x = -2y$

  $x - y = 9$

  $x = 6, y = -3$

④ $3x - 4y = 10$

  $2y + 4x = 6$

  $x = 2, y = -1$

⑤ $y = x + 5$

  $y = -2x - 4$

  $x = -3, y = 2$

Solve each system by using the elimination method.

⑥ $8x + y = -16$

  $-3x + y = -5$

  $x = -1, y = -8$

⑦ $5x + 4y = -14$

  $3x + 6y = 6$

  $x = -6, y = 4$

⑧ $-6x + 5y = -1$

  $6x + 4y = -10$

  $x = -\dfrac{23}{27}, y = -\dfrac{11}{19}$