Algebra 1

Practice: Sect. 6.1, 6.2 and 6.6

Solve each system by graphing.

1) $-6 = -3y + 5x$
   $5x = -6 + 3y$
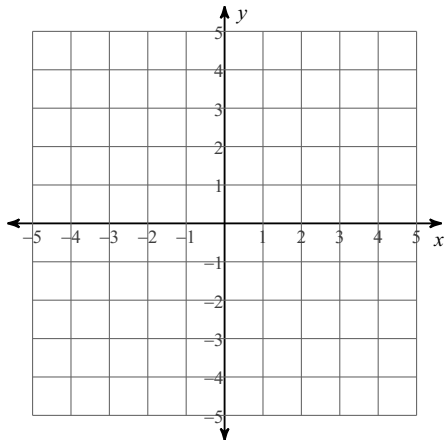
2) $2x + 3 = 3y$
   $x - \dfrac{3}{2} = \dfrac{1}{2}y$
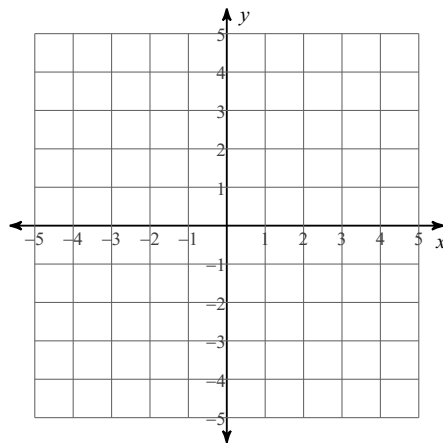
Solve each system by substitution.

3) $5x - 8y = -24$
   $-2x + y = -8$

4) $-2x - 2y = -4$
   $x + y = -5$

Sketch the solution to each system of inequalities.

5) $x + 3y < 3$
   $5x + 3y > -9$
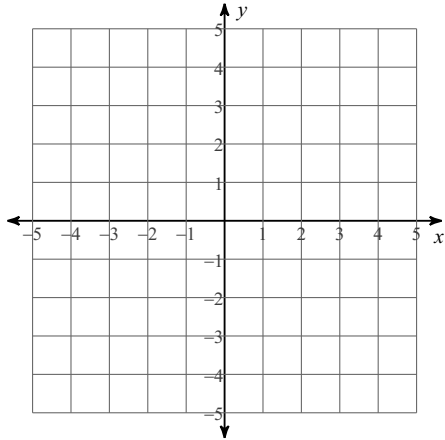
6) Stefan and Cody are selling flower bulbs for a school fundraiser. Customers can buy bags of windflower bulbs and packages of crocus bulbs. Stefan sold 14 bags of windflower bulbs and 3 packages of crocus bulbs for a total of $86. Cody sold 7 bags of windflower bulbs and 14 packages of crocus bulbs for a total of $168. What is the cost each of one bag of windflower bulbs and one package of crocus bulbs?
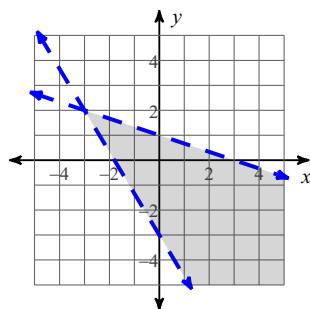
Answers to Practice: Sect. 6.1, 6.2 and 6.6

1) Infinite number of solutions   2) $(3, 3)$ 3) $(8, 8)$

4) No solution   5)

6) bag of windflower bulbs: $4, package of crocus bulbs: $10