

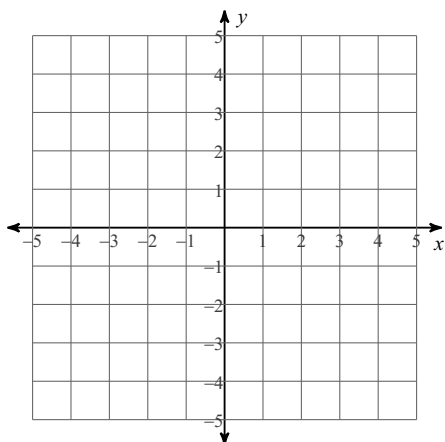
Chapter 3 Test Review

Date _____ Period _____

Solve each system by graphing.

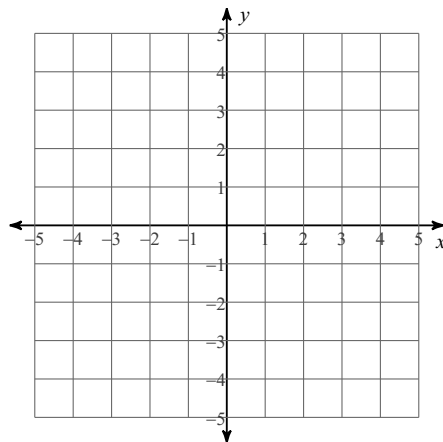
1) $-4 - y = 5x$

$$x = -\frac{3}{2} + \frac{1}{2}y$$



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

$$-2y + x = 6$$



Solve each system by substitution.

3) $y = 4x + 11$
 $y = 6x + 17$

4) $4x - 7y = 15$
 $2x + y = 3$

5) $y = 5x + 2$
 $-x - 4y = -8$

6) $y = 2x + 3$
 $-6x + 4y = 16$

Solve each system by elimination.

7) $2x - 2y = -6$
 $-6x + 2y = -2$

8) $2x + 5y = 10$
 $6x + 5y = -10$

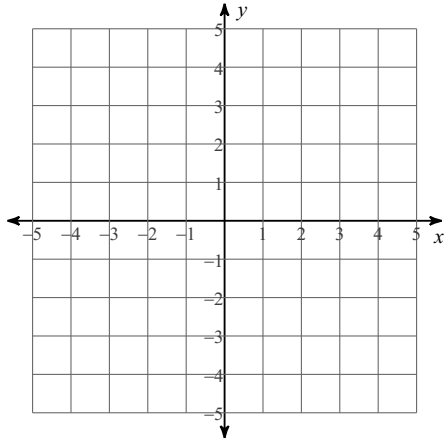
$$\begin{aligned} 9) \quad & -4x - 5y = 6 \\ & 5x - 6y = 17 \end{aligned}$$

$$\begin{aligned} 10) \quad & \frac{1}{2}x = 1 - \frac{5}{6}y \\ & -1 = -\frac{1}{2}x + \frac{5}{6}y \end{aligned}$$

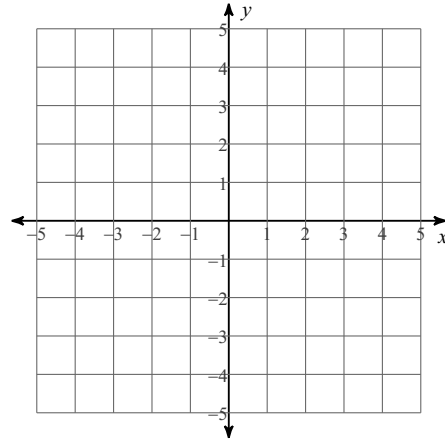
- 11) Kayla and Scott each improved their yards by planting daylilies and geraniums. They bought their supplies from the same store. Kayla spent \$37 on 11 daylilies and 3 geraniums. Scott spent \$70 on 5 daylilies and 12 geraniums. What is the cost of one daylily and the cost of one geranium?

Sketch the solution to each system of inequalities.

12) $y \leq -4x - 2$
 $y \geq -x + 1$



13) $x - 2y \leq -6$
 $3x + 2y \leq -2$



Solve each system by elimination.

14) $-4x - 3y + 5z = -18$
 $4x + 4y - 5z = 17$
 $-4x - 4y - 2z = -10$