

**EXERCISE A**

Solve each system of equations by graphing.

1)  $y = 2x + 9$   
 $y = -x + 3$

2)  $y = 2x - 4$   
 $y = -3x + 1$

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

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

5)  $x - 2y = 8$   
 $\frac{1}{2}x - y = 4$

6)  $y = x + 3$   
 $y = 2x + 6$

7)  $x + y = 4$   
 $-4x + y = 9$

8)  $6x + 2y = 6$   
 $x + \frac{1}{3}y = 1$

**EXERCISE B**

Solve each system of equations by graphing.

9)  $y = 3x - 8$   
 $y = x - 8$

10)  $x + 2y = 6$   
 $2x + y = 9$

11)  $2x + 3y = 12$   
 $2x - y = 4$

12)  $2x + 3y = 7$   
 $2x - 3y = 7$

13)  $y - x = 5$   
 $2y - 2x = 8$

14)  $4x - 2y = 6$   
 $6x - 3y = 9$

15)  $x - 2y = 0$   
 $\frac{1}{4}x + \frac{1}{2}y = -2$

16)  $8x - 3y = -3$   
 $4x - 2y = -4$

**EXERCISE C**17) The graphs of  $y - 2x = 1$ ,  $4x + y = 7$ , and  $2y - x = -4$  contain the sides of a triangle. Find the coordinates of the vertices of the triangle.

ANSWERS:

1)  $(-2, 5)$

7)  $(-1, 5)$

13)  $\emptyset$

3)  $(1, 5)$

9)  $(0, -8)$

15)  $(-4, -2)$

5) infinite sol.s

11)  $(3, 2)$

17)  $(1, 3),$

$(2, -1), (-2, -3)$