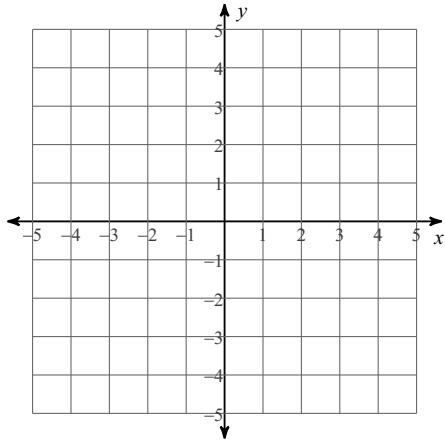


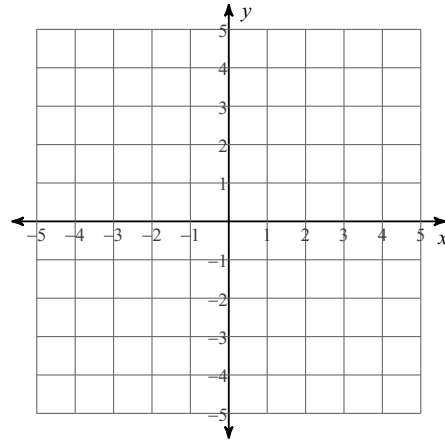
# Systems of Equations - Mixed Review

**Solve each system by graphing.**

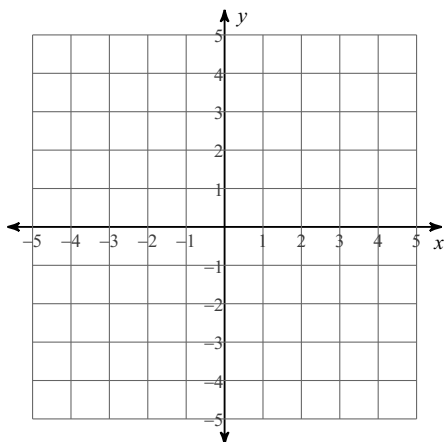
1)  $y = 5x - 2$   
 $y = -x + 4$



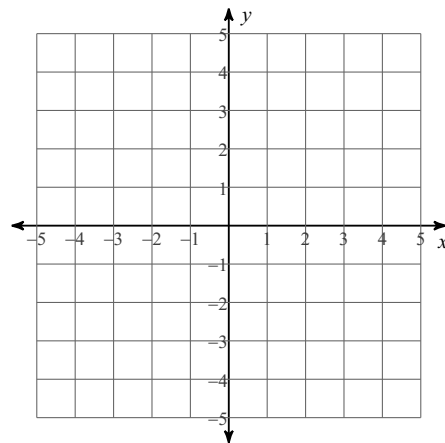
2)  $y = x - 3$   
 $y = 8x + 4$



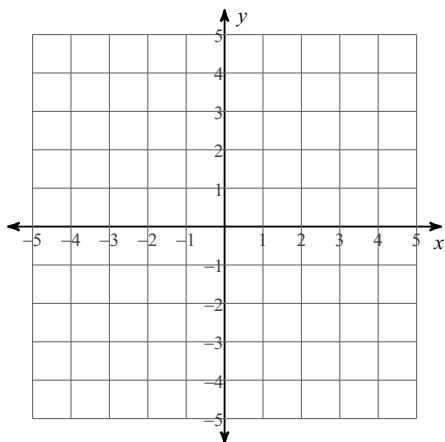
3)  $y = -\frac{1}{4}x - 3$   
 $x = 4$



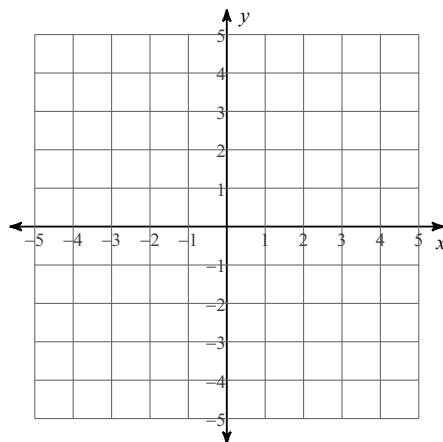
4)  $x + 3y = 9$   
 $x + 3y = -6$



$$\begin{aligned} 5) \quad & 3x + 4y = 16 \\ & x - y = 3 \end{aligned}$$



$$\begin{aligned} 6) \quad & x + 2y = 8 \\ & 5x - 2y = 4 \end{aligned}$$



**Solve each system by substitution. \*Show your work on a separate sheet.**

$$\begin{aligned} 7) \quad & y = 7x + 15 \\ & y = -2x + 6 \end{aligned}$$

$$\begin{aligned} 8) \quad & y = 4x + 7 \\ & y = -4x - 1 \end{aligned}$$

$$\begin{aligned} 9) \quad & -2x + 4y = -10 \\ & y = -6x - 9 \end{aligned}$$

$$\begin{aligned} 10) \quad & 4x - y = -5 \\ & y = 4x + 5 \end{aligned}$$

$$\begin{aligned} 11) \quad & x - 4y = -16 \\ & 3x + 8y = -8 \end{aligned}$$

$$\begin{aligned} 12) \quad & -2x + 4y = -10 \\ & -2x + y = 2 \end{aligned}$$

**Solve each system by elimination. \*Show your work on a separate sheet.**

$$\begin{aligned} 13) \quad & 9x + 9y = 11 \\ & -9x - 9y = -9 \end{aligned}$$

$$\begin{aligned} 14) \quad & -9x - 9y = 0 \\ & 6x + 9y = -6 \end{aligned}$$

$$\begin{aligned} 15) \quad & -3x + y = 0 \\ & -8x + y = 10 \end{aligned}$$

$$\begin{aligned} 16) \quad & 4x + 2y = -22 \\ & 4x + 10y = -30 \end{aligned}$$

$$\begin{aligned} 17) \quad & -4x - 10y = -30 \\ & x + y = 6 \end{aligned}$$

$$\begin{aligned} 18) \quad & 2x + 2y = -6 \\ & -6x + 3y = 9 \end{aligned}$$

$$\begin{aligned} 19) \quad & 2x - 3y = 12 \\ & -3x + 4y = -16 \end{aligned}$$

$$\begin{aligned} 20) \quad & 4x + 5y = -1 \\ & 7x + 4y = -16 \end{aligned}$$

## Answers to Systems of Equations - Mixed Review

- |                |                                  |                |                |
|----------------|----------------------------------|----------------|----------------|
| 1) $(1, 3)$    | 2) $(-1, -4)$                    | 3) $(4, -4)$   | 4) No solution |
| 5) $(4, 1)$    | 6) $(2, 3)$                      | 7) $(-1, 8)$   | 8) $(-1, 3)$   |
| 9) $(-1, -3)$  | 10) Infinite number of solutions | 11) $(-8, 2)$  |                |
| 12) $(-3, -4)$ | 13) No solution                  | 14) $(2, -2)$  | 15) $(-2, -6)$ |
| 16) $(-5, -1)$ | 17) $(5, 1)$                     | 18) $(-2, -1)$ | 19) $(0, -4)$  |
| 20) $(-4, 3)$  |                                  |                |                |