

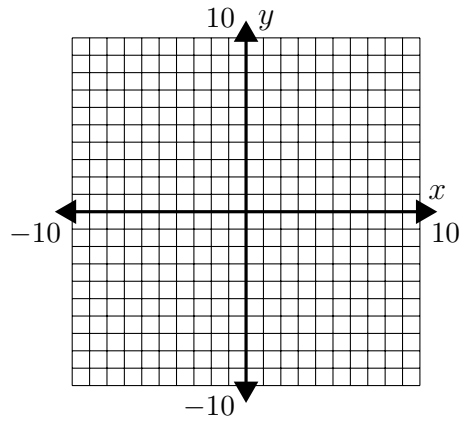
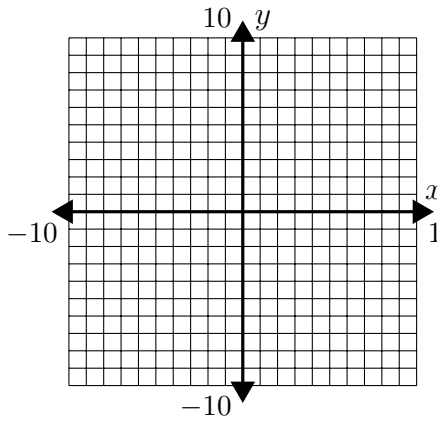
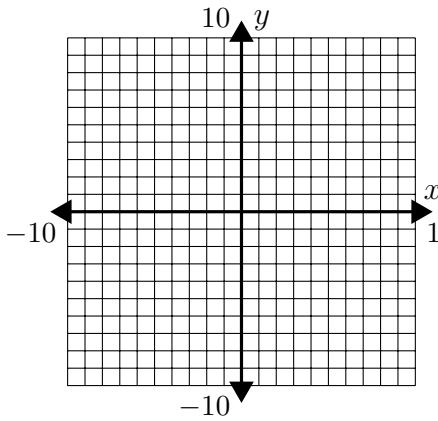
**Graphing Worksheet 38**

1. Graph each equation.

(a)  $-4x + 9y = 0$

(b)  $9x - 7y = -56$

(c)  $10x + 8y = 80$



2. Multiple choice: Which equation has a graph that is parallel to the graph of  $y = \frac{7}{10}x + 3$ ?

(a)  $y = \frac{10}{7}x + 3$

(b)  $y = \frac{7}{10}x - 3$

(c)  $y = -\frac{10}{7}x + 3$

(d)  $y = -\frac{7}{10}x - 3$

3. Multiple choice: Which equation has a graph that is parallel to the graph of  $-6x + 4y = -6$ ?

(a)  $-2x + 3y = 6$

(b)  $-3x + 2y = 6$

(c)  $2x - 3y = -6$

(d)  $-2x - 3y = -16$

4. Multiple choice: Which equation has a graph that is perpendicular to the graph of  $y = \frac{7}{10}x + 3$ ?

(a)  $y = \frac{10}{7}x + 3$

(b)  $y = \frac{7}{10}x - 3$

(c)  $y = -\frac{10}{7}x + 3$

(d)  $y = -\frac{7}{10}x - 3$

5. Multiple choice: Which equation has a graph that is perpendicular to the graph of  $-6x + 4y = -6$ ?

(a)  $-2x + 3y = 6$

(b)  $-3x + 2y = 6$

(c)  $2x - 3y = -6$

(d)  $-2x - 3y = -16$

6. Write the equation of a line that is parallel to the graph of the given line and also passes through the given point.

(a)  $y = -\frac{6}{4}x + -9$        $(-3, -9)$

(b)  $8x + 5y = -5$        $(-2, 6)$

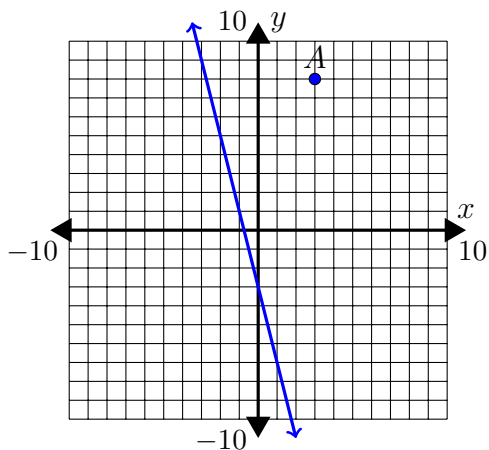
7. Write the equation of a line that is perpendicular to the graph of the given line and also passes through the given point.

(a)  $y = -\frac{6}{4}x + -9$        $(-3, -9)$

(b)  $8x + 5y = -5$        $(-2, 6)$

8. Write the equations of the lines whose graphs are parallel and perpendicular to the graphed line and passes through point A.

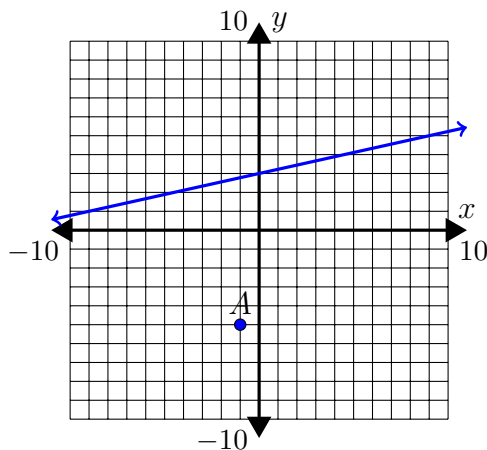
(a)



i. Parallel:

ii. Perpendicular:

(b)



i. Parallel:

ii. Perpendicular: