Extended Algebra 1 Name:_____

Graphing 4 Review WS

Exercises 1-8 are multiple choice. Select the best answer.

1. Which equation has a graph that is parallel to the graph of $y = \frac{2}{5}x - 8$?

(a) $y = -\frac{5}{2}x + 4$ **(b)** $y = \frac{5}{2}x + 4$ **(c)** $y = \frac{2}{5}x + 4$ **(d)** $y = -\frac{2}{5}x + 4$

2. Which equation has a graph that is parallel to the graph of $-3x + 8y = -8$?

(a) $8x - 3y = 5$ **(b)** $8x + 3y = 5$ **(c)** $-3x + 8y = 5$ **(d)** $3x + 8y = 5$

3. Which equation has a graph that is perpendicular to the graph of $y = \frac{2}{5}x - 8$?

(a) $y = -\frac{5}{2}x + 4$ **(b)** $y = \frac{5}{2}x + 4$ **(c)** $y = \frac{2}{5}x + 4$ **(d)** $y = -\frac{2}{5}x + 4$

4. Which equation has a graph that is perpendicular to the graph of $-3x + 8y = -8$?

(a) $8x - 3y = 5$ **(b)** $8x + 3y = 5$ **(c)** $-3x + 8y = 5$ **(d)** $3x + 8y = 5$

5. Which of the following equations is in standard form?

(a) $x = -4y - 5$ **(b)** $2x + 8y = -10$ **(c)** $-x - 4y = 5$ **(d)** $x + 4y = -5$

6. Which of the following equations is in standard form?

(a) $6x - y = -9$ **(b)** $2x - \frac{1}{2}y = -3$ **(c)** $12x - 2y = -18$ **(d)** $y = -6x + 9$

7. Which of the following equations is the standard form equivalent of $y = -3x + 7$?

(a) $-3x + y = 7$ **(b)** $3x + y = 7$ **(c)** $3x - y = -7$ **(d)** $3x + y = -7$

8. Which of the following equations is the standard form equivalent of $y = \frac{7}{6}x - 3$?

(a) $7x - 6y = 18$ **(b)** $6x - 7y = -18$ **(c)** $6x + 7y = 18$ **(d)** $-7x + 6y = -18$

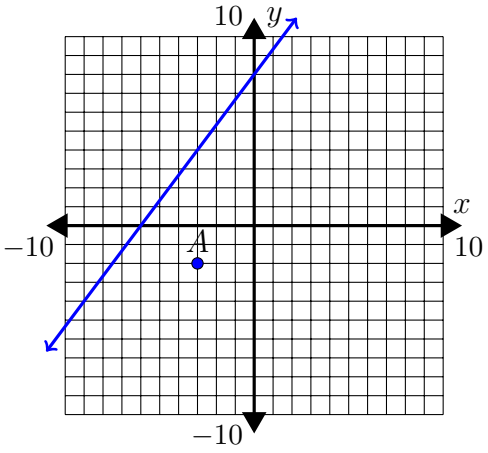
9. Write the equation (in slope-intercept form) of the line whose graph is parallel to the graph of the given equation and passes through the given point.

(a) $y = \frac{3}{2}x + 4$ passing through $(0, -6)$

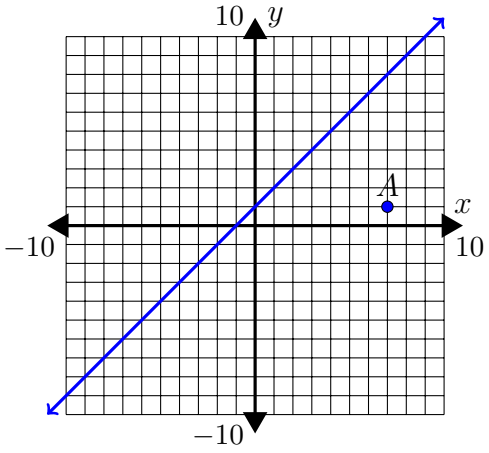
(b) $y = -\frac{3}{2}x$ passing through $(-2, 5)$

10. Write the equation of the line (in slope-intercept form) whose graph is parallel to the graphed line and passes through point A.

(a)



(b)



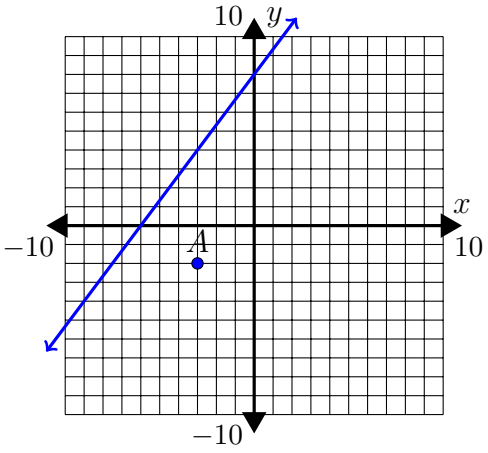
11. Write the equation (in slope-intercept form) of the line whose graph is perpendicular to the graph of the given equation and passes through the given point.

(a) $y = \frac{3}{2}x + 4$ passing through $(0, -6)$

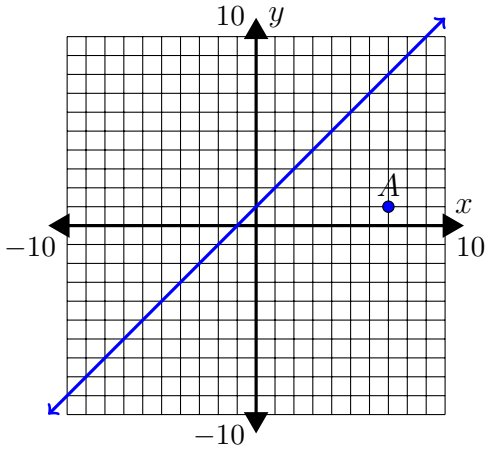
(b) $y = -\frac{3}{2}x$ passing through $(-2, 5)$

12. Write the equation of the line (in slope-intercept form) whose graph is perpendicular to the graphed line and passes through point A.

(a)



(b)

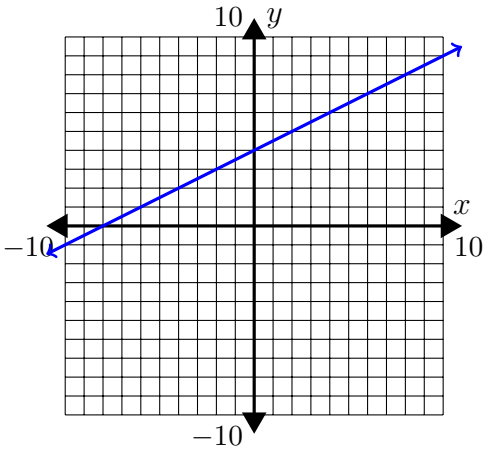


13. Change each of the following equations into standard form.

(a) $\frac{1}{2}x + 2y = 3$ **(b)** $-2x + 3y = -5$ **(c)** $y = -\frac{4}{7}x - 9$ **(d)** $y = \frac{3}{9}x + 7$

14. Write the equation of each graphed line in slope-intercept form. Then convert the equation into standard form.

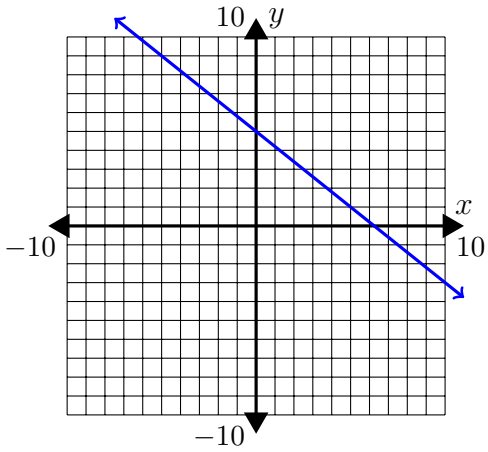
(a)



Equation in slope-intercept form:

Equation in standard form:

(b)



Equation in slope-intercept form:

Equation in standard form: