Practice	Set	1
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Geometry With Coordinates	Name	
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Practice Set 1

Date_____ Block_

For problems 1 and 2 create a line parallel to given one. For problems 3 and 4 create a line perpendicular to the given one. Explain by identifying the slope of the original line and your line.



Write an equation of a line perpendicular to each given line.

5) $y = \frac{7}{5}x + 2$ 6) $y = -\frac{2}{5}x + 4$

Write an equation of a line parallel to each given line.

7)
$$y = -\frac{7}{2}x + 3$$

8) $y = -\frac{5}{3}x + 2$

Write an equation for a line that is parallel for 9 and 10 and perpendicular for 11 and 12 to the line created from the given points.

9) (-8, -2), (-7, 5) 10) (-4, -10), (-1, -1)

11) (-3, -13), (-11, -19) 12) (-20, 1), (-19, -8)

Geometry in Coordinate Plane

Name

Parallel and Perpendicular

Write an equation for a line parallel to the given line.

1)
$$y = 3x + 5$$

2) $y = \frac{2}{3}x + 5$

3)
$$x + y = 2$$
, through point (2,1)

2)
$$y = \frac{2}{3}x + 5$$

4)
$$x - 2y = -6$$
, through point (6, -5)

Write an equation for a line perpendicular to the given line.

5)
$$y = 2x + 1$$
, through point (4.6)
6) $y = \frac{2}{5}x - 5$, through point (-2, 2)
7) $3x + y = 0$
8) $3x - y = -1$

9) Write an equation for a line parallel to a line with the points. (-14, -16), (2, -20)

10. Draw a line perpendicular to the given line and identify each lines slope. x

- 11. Write the equation for a line parallel to line y-4x = 7 that goes through point (2,1).
- 12. Write the equation for a line that is perpendicular to the line 3y + 6x + 7 = -2 and goes through point (10,6).

