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Goals:

I have mastered level 4 when I can:

Write an equation given 1 point and the slope Write an equation given any two points

Write an equation given any two points				
Notes:				
Big Ideas	Examples/Details			
Definition of				
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Basic Practice:

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through:
$$(-5, 1)$$
, slope = $-\frac{4}{5}$

2) through:
$$(3, -4)$$
, slope = $-\frac{1}{3}$

3) through:
$$(1, -3)$$
, slope = 1

4) through:
$$(-2, 4)$$
, slope = -4

Write the standard form of the equation of the line through the given points.

5) through:
$$(-3, -1)$$
 and $(4, -2)$

6) through:
$$(-5, -2)$$
 and $(5, 2)$

8) through:
$$(2, -5)$$
 and $(-5, 1)$

Worksheet Level 4: Writing Linear Equations

Goals:

I have mastered level 4 when I can:

Write an equation given 1 point and the slope Write an equation given any two points

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through:
$$(4, 1)$$
, slope = $\frac{3}{4}$

2) through:
$$(2, -2)$$
, slope = 0

3) through:
$$(5, 5)$$
, slope = $\frac{4}{5}$

4) through:
$$(3, -4)$$
, slope = $-\frac{4}{3}$

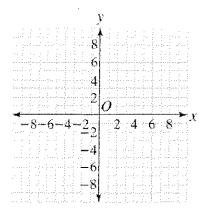
5) through
$$(-5, 0)$$
, slope = $-\frac{1}{5}$

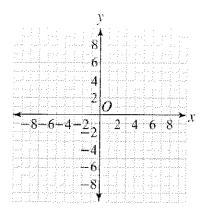
6) through
$$(-1, 3)$$
, slope = -4

Draw a line on the graph using the point given and the slope. Then write an equation in slope-intercept form.

9.
$$P(5,1)$$
, slope = $-\frac{1}{3}$

10.
$$K(-2,4)$$
, slope = 3





Write the slope-intercept form of the equation of the line through the given points.

7) through: (-4, 2) and (0, -5)

8) through: (1, -1) and (5, 3)

9) through: (-5, -2) and (-3, -1)

10) through: (-5, 2) and (5, 4)

11)

For parts (a)–(f), write an equation for the line that satisfies the given conditions.

- a. The slope is 7 and the y-intercept is -2.
- **b.** The slope is 0 and the y-intercept is 9.18.
- c. The line passes through the points (3, 1) and (6, 4).
- **d.** The line passes through the points (-24, -11) and (-8, -3).
- e. The line passes through the points (-4.5, 2) and (6.3, 5.8).
- f. The slope is $-\frac{2}{3}$ and the line passes through the point (5,0).

REVIEW Level 4: Writing Linear Equations

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through:
$$(4, -3)$$
, slope = -1

2) through:
$$(4, 2)$$
, slope = $\frac{5}{8}$

3) through:
$$(-5, 5)$$
, slope = $-\frac{1}{5}$

4) through:
$$(1, 4)$$
, slope = 9

5) through:
$$(4, 1)$$
, slope = $\frac{3}{2}$

6) through:
$$(4, -5)$$
, slope = $-\frac{1}{4}$

Write the slope-intercept form of the equation of the line through the given points.

8) through:
$$(3, -1)$$
 and $(4, -3)$

9) through:
$$(2, -2)$$
 and $(3, 0)$