

Lessons 4-1/4-2 Review

Date _____ Period _____

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope = $-\frac{1}{2}$, y-intercept = -1

2) Slope = -10 , y-intercept = -5

3) Slope = -1 , y-intercept = 2

4) Slope = -2 , y-intercept = -4

5) Slope = $\frac{10}{3}$, y-intercept = -5

6) Slope = $\frac{7}{2}$, y-intercept = -5

7) Slope = $\frac{1}{2}$, y-intercept = 2

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

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

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

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

11) through: $(0, 0)$, slope = $\frac{3}{4}$

12) through: $(0, 2)$, slope = 3

13) through: $(1, 0)$, slope = 5

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

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

15) through: $(4, 1)$ and $(2, 1)$

16) through: $(4, 1)$ and $(-3, 0)$

17) through: $(-2, 3)$ and $(1, -3)$

18) through: $(0, 0)$ and $(1, -4)$

19) through: $(2, -5)$ and $(-5, 0)$

20) through: $(1, 4)$ and $(-4, -5)$

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

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Date _____ Period _____

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope = $-\frac{1}{2}$, y-intercept = -1 $y = -\frac{1}{2}x - 1$

2) Slope = -10 , y-intercept = -5
 $y = -10x - 5$

3) Slope = -1 , y-intercept = 2
 $y = -x + 2$

4) Slope = -2 , y-intercept = -4
 $y = -2x - 4$

5) Slope = $\frac{10}{3}$, y-intercept = -5 $y = \frac{10}{3}x - 5$

6) Slope = $\frac{7}{2}$, y-intercept = -5 $y = \frac{7}{2}x - 5$

7) Slope = $\frac{1}{2}$, y-intercept = 2 $y = \frac{1}{2}x + 2$

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

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

9) through: $(-5, 4)$, slope = $-\frac{6}{5}$ $y = -\frac{6}{5}x - 2$

10) through: $(-1, 3)$, slope = -1
 $y = -x + 2$

11) through: $(0, 0)$, slope = $\frac{3}{4}$ $y = \frac{3}{4}x$

12) through: $(0, 2)$, slope = 3
 $y = 3x + 2$

13) through: $(1, 0)$, slope = 5
 $y = 5x - 5$

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

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

15) through: $(4, 1)$ and $(2, 1)$
 $y = 1$

16) through: $(4, 1)$ and $(-3, 0)$ $y = \frac{1}{7}x + \frac{3}{7}$

17) through: $(-2, 3)$ and $(1, -3)$
 $y = -2x - 1$

18) through: $(0, 0)$ and $(1, -4)$
 $y = -4x$

19) through: $(2, -5)$ and $(-5, 0)$ $y = -\frac{5}{7}x - \frac{25}{7}$

20) through: $(1, 4)$ and $(-4, -5)$ $y = \frac{9}{5}x + \frac{11}{5}$

21) through: $(-3, -1)$ and $(2, -5)$ $y = -\frac{4}{5}x - \frac{17}{5}$