Math 1 Name Key ID: 1

Unit 2B Review

Period____

Find the slope of the line through each pair of points.

1) $(-14, 5), (12, -20)$ $\frac{-25}{26}$

2) $(-14, -9), (-12, 12)$ $\frac{21}{2}$

3) $(-6, 1), (12, 8)$ $\frac{7}{18}$

4) $(16, -3), (-11, -19)$ $\frac{-16}{-27} = \frac{16}{27}$

5) $(-12, -4), (-6, -17)$ $\frac{21}{18} = \frac{7}{6}$

6) $(-16, 8), (-15, 7)$ $\frac{-1}{1} = -1$

Write the equation of each line. Choose slope intercept or point slope form based on the given information.

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

$y = \frac{10}{3}x + 5$

8) Slope $= 2$, y-intercept $= -2$

$y = 2x - 2$

9) Slope $= 4$, y-intercept $= -4$

$y = 4x - 4$

10) Slope $= 6$, y-intercept $= 3$

$y = 6x + 3$

11) through: $(4, -4)$, slope $= -\frac{3}{7}$

$y = -4 - \frac{3}{7}(x - 4)$

12) through: $(-1, -1)$, slope $= 5$

$y = -1 + 5(x + 1)$

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

$y = -1 - 1x$

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

$y = 2 + \frac{4}{3}(x + 1)$

15) through: $(0, 2)$ and $(1, 2)$ $m = \frac{0}{1} = 0$

$y = 2$ $y = 2 + 0(x - 1)$

16) through: $(0, -4)$ and $(4, 5)$ $m = \frac{9}{4}$

$y = 5 + \frac{9}{4}(x - 4)$

17) through: $(-2, 0)$ and $(2, 2)$ $m = \frac{2}{4} = \frac{1}{2}$

$y = 2 + \frac{1}{2}(x - 2)$

18) through: $(0, -4)$ and $(1, -5)$ $m = \frac{-1}{1} = -1$

$y = -5 - 1(x + 1)$

Write the slope-intercept form of the equation of each line.

19) $8x - 7y = -41$ $y = \frac{8}{7}x + \frac{41}{7}$

20) $x + 2y = -10$ $y = -\frac{1}{2}x - 5$

21) $4x + 7y = -4$ $y = -\frac{4}{7}x - 1$

22) $2x + y = -2$ $y = -2x - 2$

23) $y - 3 = -\frac{1}{2}(x + 4)$ $y = -\frac{1}{2}x + 1$

24) $y - 2 = 2x$ $y = 2x + 2$

25) $y - 4 = -(x + 3)$ $y = -x + 1$

26) $y + 3 = -\frac{6}{5}(x - 5)$ $y = -\frac{6}{5}x - 9$