SRHS Math 1 Name_____ ID: 1

Review of 4.1 - 4.3

Date_____ Period____

Find the slope of each line.

1) $y = -2x + 5$

2) $y = -6x - 2$

3) $y = -5x - 4$

4) $y = -2$

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

5) $(19, 3), (17, -14)$

6) $(-7, -16), (18, 12)$

7) $(-6, -3), (-17, -4)$

8) $(-3, -17), (-4, -13)$

Find the slope of a line parallel to each given line.

9) $y = -2x + 3$

10) $y = \frac{4}{3}x - 1$

Find the slope of a line perpendicular to each given line.

11) $y = x + 3$

12) $y = 2x - 4$

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

13) Slope $= \frac{9}{4}$, y-intercept $= 4$

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

15) Slope $= \frac{1}{3}$, y-intercept $= -3$

16) Slope $= -\frac{9}{4}$, y-intercept $= 5$

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

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

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

19) through: $(0, -5)$, slope $= -1$

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

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

21) through: $(-1, 1)$ and $(4, 2)$

22) through: $(3, 0)$ and $(0, -3)$

23) through: $(2, 1)$ and $(-1, -1)$

24) through: $(4, -5)$ and $(0, 5)$

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

25) $y - 5 = 3(x - 1)$

26) $y - 2 = \frac{7}{4}(x - 4)$

27) $y - 4 = -\frac{3}{5}(x + 3)$

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

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

29) through: $(-1, -4)$ and $(-2, -1)$

30) through: $(0, 3)$ and $(-4, -4)$

31) through: $(2, 0)$ and $(2, -1)$

32) through: $(0, 4)$ and $(0, 5)$

Write the point-slope form of the equation of the line described.

33) through: $(-2, 4)$, parallel to $y = -\frac{1}{2}x + 4$

34) through: $(-5, -3)$, parallel to $y = \frac{7}{5}x - 1$

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

35) through: $(-2, 4)$, parallel to $y = -x - 3$

36) through: $(4, -3)$, parallel to $y = -\frac{1}{4}x - 3$

Write the point-slope form of the equation of the line described.

37) through: $(1, -1)$, perp. to $y = \frac{1}{4}x - 2$

38) through: $(-1, 3)$, perp. to $y = \frac{1}{7}x - 4$

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

39) through: $(-3, -3)$, perp. to $y = \frac{2}{5}x + 1$

40) through: $(-1, -3)$, perp. to $y = x - 1$