Algebra 1+
Name_____

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

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

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

2) through: $(2, 1)$, slope = 2

3) through: $(0, 2)$, slope = 1

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

5) through: $(-1, 3)$, slope = -6

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

7) through: $(1, -2)$, slope = -2

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

8) through: $(0, -3)$ and $(2, -5)$

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

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

11) through: $(0, 4)$ and $(-1, 5)$

12) through: $(2, -4)$ and $(3, 4)$

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

13) through: $(4, 5)$, parallel to $y = x - 2$

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

15) through: $(2, 0)$, parallel to $y = x - 5$

16) through: $(-5, 1)$, parallel to $y = -3x - 3$

17) through: $(2, -4)$, perp. to $y = x - 5$

18) through: $(2, 3)$, perp. to $y = -\frac{1}{4}x$

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

20) through: $(2, 4)$, perp. to $y = -2x - 1$