Geometry

Name_____

Writing Linear Equations

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

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

$$y = -\frac{1}{2}x - \frac{7}{2}$$

2) through: $(-5, 5)$, slope $= -\dfrac{6}{5}$

$$y = -\frac{6}{5}x - 1$$

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

$$y = x - 2$$

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

$$y = \frac{3}{2}x - 4$$

5) through: $(3, 5)$, slope $= \dfrac{8}{3}$

$$y = \frac{8}{3}x - 3$$

6) through: $(4, 4)$, slope $= \dfrac{9}{4}$

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

7) through: $(-4, -5)$, slope $= 2$

$y = 2x + 3$

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

$y = \dfrac{4}{3}x + 1$

9) through: $(5, 3)$, slope $= \dfrac{3}{5}$

$y = \dfrac{3}{5}x$

10) through: $(1, 3)$, slope $= 5$

$y = 5x - 2$

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

$y = 2x - 4$

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

$y = -2x - 1$