Geometry Name_____

Writing equations #1

Date_____ Period____

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

1) Slope = $\frac{6}{5}$, y-intercept = 1

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

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

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

4) $y = x + 2$

5) $\frac{40}{9} = -2x + \frac{8}{9}y$

6) $6x + 4 = y$

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

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

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

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

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

10) through: $(2, -3)$ and $(-3, -5)$

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

11) through: $(-3, 3)$, parallel to $y = -6x - 3$

12) through: $(-3, 0)$, parallel to $y = x - 4$

13) through: $(-4, 4)$, perp. to $y = \frac{1}{5}x - 5$

14) through: $(-3, -4)$, perp. to $y = -\frac{5}{3}x - 5$