Algebra 2 Name_____

Worksheet 2.3/2.4

Date_____ Period____

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

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

2) Slope $= -\frac{7}{5}$, y-intercept $= 4$

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

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

4) through: $(5, 4)$, slope $= 1$

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

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

6) through: $(-5, 0)$ and $(-2, -1)$

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

7) through: $(2, 5)$ and $(-1, 3)$

8) through: $(5, 3)$ and $(-2, 1)$

Write the standard form of the equation of the line through the given points.

9) through: $(1, 4)$ and $(-2, -3)$

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

Write the standard form of the equation of each line.

11) $y - 2 = \frac{3}{7}(x + 2)$

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

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

13) $x + 6y = 17$