

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

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

1) through: (0, 0) and (-4, 1)

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

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

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

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

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

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

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

**Convert the equation of each line to slope-intercept form.**

7)  $7x + 2y = 12$

8)  $8x - 3y = 0$

9)  $y = \frac{2}{9}(x - 5)$

10)  $0 = x - 4$

**Convert the equation of each line to standard form.**

11)  $y = -x - 2$

12)  $y = -\frac{2}{5}x$

13)  $y + 2 = -(x - 3)$

14)  $y - 3 = \frac{7}{4}(x - 4)$

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

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

16) Slope = 0, y-intercept = -4

**Write the standard form of the equation of each line described.**

17) through: (3, -4), parallel to  $y = -\frac{1}{8}x - 4$

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

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

20) through: (3, -5), perp. to  $y = \frac{3}{7}x + 3$