Geometry 1-2

Assignment

Name

Date

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

1) through: (0, 0) and (-4, 1) x + 4y = 02) through: (-5, 5) and (0, -1)6x + 5y = -5

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

3) through: (-5, -2) and (3, 1) $y = \frac{3}{8}x - \frac{1}{8}$ 4) through: (5, -5) and (-1, 2) $y = -\frac{7}{6}x + \frac{5}{6}$

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

5) through: (2, 3) and (-5, 0) $y - 3 = \frac{3}{7}(x - 2)$ 6) through: (-5, 2) and (4, -1) $y - 2 = -\frac{1}{3}(x + 5)$

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

7)
$$7x + 2y = 12$$
 $y = -\frac{7}{2}x + 6$
8) $8x - 3y = 0$ $y = \frac{8}{3}x$
9) $y = \frac{2}{9}(x - 5)$ $y = \frac{2}{9}x - \frac{10}{9}$
10) $0 = x - 4$
 $x = 4$

Convert the equation of each line to standard form.

11) y = -x - 2 x + y = -212) $y = -\frac{2}{5}x$ 2x + 5y = 013) y + 2 = -(x - 3) x + y = 114) $y - 3 = \frac{7}{4}(x - 4)$ 7x - 4y = 16

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

15) Slope = $\frac{5}{2}$, y-intercept = -5 5x - 2y = 1016) Slope = 0, y-intercept = -4 y = -4

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

17) through: (3, -4), parallel to $y = -\frac{1}{8}x - 4$ x + 8y = -2918) through: (-4, -1), parallel to $y = \frac{1}{4}x + 3$ x - 4y = 019) through: (4, -2), perp. to $y = -\frac{1}{2}x - 1$ 2x - y = 1020) through: (3, -5), perp. to $y = \frac{3}{7}x + 3$ 7x + 3y = 6

Period