Geometry Support Name_____ ID: 1

Slope Int & Point Slope Practice

Date_____ Period____

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

1) through: $(-2, 2)$, parallel to $y = -\frac{3}{2}x + 4$

2) through: $(3, -5)$, parallel to $y = -2x + 4$

3) through: $(3, 2)$, parallel to $y = -\frac{1}{3}x - 3$

4) through: $(1, 0)$, perp. to $y = \frac{1}{4}x$

5) through: $(-2, -4)$, perp. to $y = -\frac{2}{3}x + 3$

6) through: $(0, -4)$, perp. to $y = -\frac{5}{6}x - 1$

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

7) through: $(-4, 4)$, slope $= -\frac{5}{4}$

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

9) through: $(-4, 3)$, slope $= -\frac{5}{4}$

10) through: $(1, 2)$, slope $= 6$

Geometry Support Name_____ ID: 1

Slope Int & Point Slope Practice

Date_____ Period____

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

1) through: $(-2, 2)$, parallel to $y = -\frac{3}{2}x + 4$

$y = -\frac{3}{2}x - 1$

2) through: $(3, -5)$, parallel to $y = -2x + 4$

$y = -2x + 1$

3) through: $(3, 2)$, parallel to $y = -\frac{1}{3}x - 3$

$y = -\frac{1}{3}x + 3$

4) through: $(1, 0)$, perp. to $y = \frac{1}{4}x$

$y = -4x + 4$

5) through: $(-2, -4)$, perp. to $y = -\frac{2}{3}x + 3$

$y = \frac{3}{2}x - 1$

6) through: $(0, -4)$, perp. to $y = -\frac{5}{6}x - 1$

$y = \frac{6}{5}x - 4$

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

7) through: $(-4, 4)$, slope $= -\frac{5}{4}$

$y - 4 = -\frac{5}{4}(x + 4)$

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

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

9) through: $(-4, 3)$, slope $= -\frac{5}{4}$

$y - 3 = -\frac{5}{4}(x + 4)$

10) through: $(1, 2)$, slope $= 6$

$y - 2 = 6(x - 1)$