

Chapter 5 Review Packet

Name: _____

Write an equation of the line in slope-intercept form with the given slope and y-intercept.

(1) Slope: 3 ; y-intercept: (0,8)

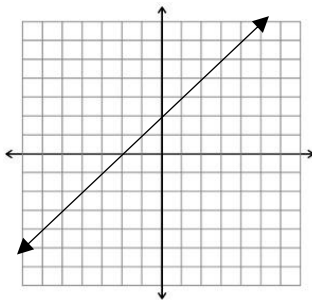
(2) Slope: 11 ; y-intercept: (0,-2)

(3) Slope: $\frac{2}{5}$; y-intercept: (0,3)

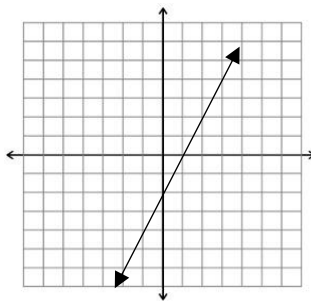
(4) Slope: -3 ; y-intercept: (0,-7)

Write an equation for the line shown in any form that you choose.

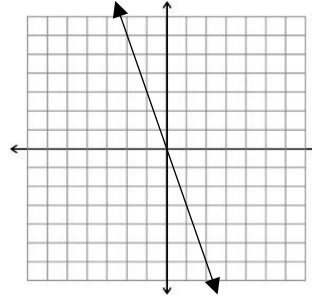
(5)



(6)



(7)



Write an equation of the line in slope-intercept form that passes through the given points.

(8) (0, 5) (2, 11)

(9) (0, 1) (3, -5)

(10) (-5, 2) (0, -3)

Write an equation in point-slope form of the line that passes through the given point and has slope m .

(11) $(2, 2); m = 5$

(12) $(-1, 7); m = 4$

(13) $(-8, -6); m = 6$

Write an equation in point-slope form of the line that passes through the given points.

(14) $(7, 2), (2, 12)$

(15) $(-4, -1), (6, -7)$

(16) $(-3, -20), (4, 36)$

Write an equation of the line in slope-intercept form that passes through the given point and has slope m .

(17) $(-1, 6); m = 5$

(18) $(10, 3); m = -2$

(19) $(5, -4); m = \frac{1}{3}$

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

(20) $(-10, 7), (5, -3)$

(21) $(-5, -3), (12, 17.4)$

(22) $(-8, 84), (5, -46)$

Convert the following equations to standard form.

$$(23) y + 2 = -\frac{1}{2}(x - 5)$$

$$(24) y - 1 = 3(x + 2)$$

$$(25) y + 1 = -\frac{1}{3}(x - 4)$$

$$(26) y - 2 = \frac{1}{2}(x + 4)$$

$$(27) y - 1 = -3(x - 2)$$

$$(28) y + 6 = -\frac{1}{2}(x - 7)$$

Write an equation in slope-intercept form of the line that passes through the given point and is parallel to the given line.

$$(29) (0, -3); y = 2x + 2$$

$$(30) (0, -1); y = -\frac{3}{5}x - 3$$

$$(31) (0, 5); 2y = 4x - 6$$

Write an equation in slope-intercept form of the line that passes through the given point and is perpendicular to the given line.

$$(32) (0, -3); y = x + 5$$

$$(33) (0, -4); y = -\frac{2}{7}x + 1$$

$$(34) (0, 4); y = \frac{5}{2}x + 3$$