- 1. What number is the slope of the line y 1 = -2(x + 4) ?
- (B) -2

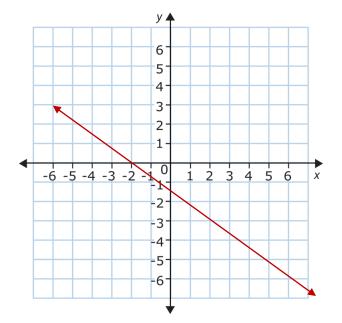
- 2. What are the coordinates of one point on the line y 1 = -2(x + 4)?

 - A) (-4, -1) B) (-4, -1)
- C) (4, 1)
- 3. Refer to the line $y + 3 = -\frac{3}{4}(x 2)$.
- a) What is the slope?

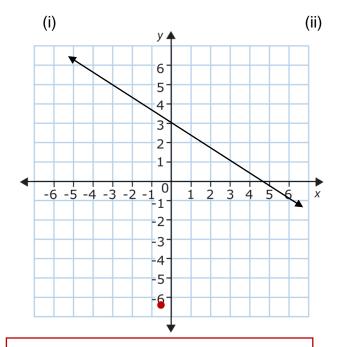
Slope =
$$-\frac{3}{4}$$

b) What are the coordinates of the point?

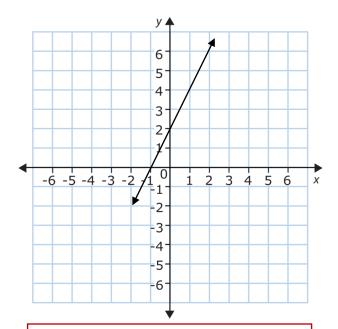
c). Graph the line.



4. Write the equation for each line in a) Slope-point form b) Slope-intercept form

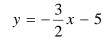


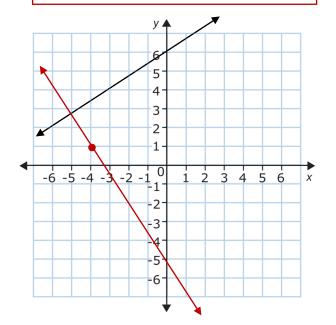
 $y-5 = -\frac{2}{3}(x+3)$ AND $y = -\frac{2}{3}x+3$



y - 4 = 2(x - 1) AND y = 2x + 2

5. The graph of $y = \frac{2}{3}x + 6$ is given. Write an equation for the line that passes through A(-4,1) and is perpendicular to the line $y = \frac{2}{3}x + 6$.





6. A line passes through P(-3, 4) and Q(3, -6). Write the equation of the line in slope-point form.

$$y-4 = -\frac{5}{3}(x+3)$$
 OR $y+6 = -\frac{5}{3}(x-3)$

- 7. Write each equation in general form.
- a) y = 2x 1

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

$$2x - y - 1 = 0$$

$$x + 3y - 12 = 0$$

- 8. A line passes through F(-1, 8) and has slope -3. Write the equation of the line in
- a) slope point form.

b) general form.

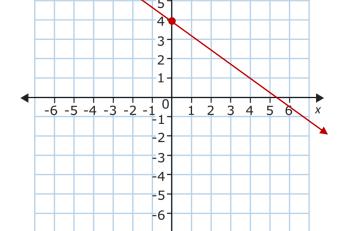
$$y - 8 = -3(x + 1)$$

$$3x + y - 5 = 0$$

- 9. Refer to the equation of a line 3x + 4y 16 = 0.
- a) Write the equation in slope-intercept form.

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

- b) What is the slope of the line?
- $-\frac{3}{4}$
- c) What is the y-intercept of the line? 4



6

- d) Graph the line using the slope and y-intercept.
- 10. Refer to the equation of a line 3x 2y + 12 = 0.
- a) Determine the x-intercept.



b) Determine the y-intercept.



c) Graph the line using the intercepts.

