4.7

Writing Equations in Point-Slope Form (Cont.)

Review

What are the four ways that we learned how to graph a line?

a)

b)

c)

d)

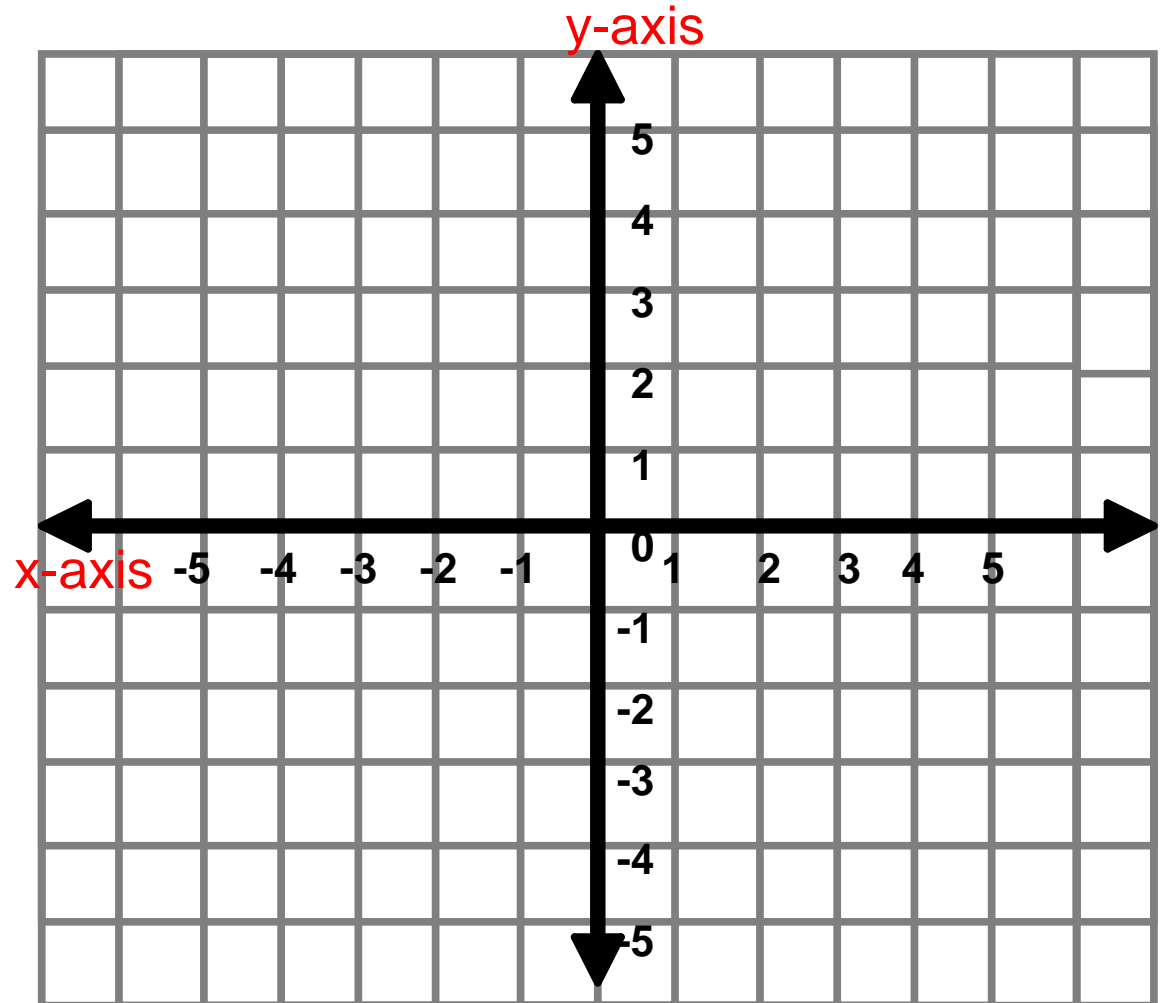Write an equation of the line that passes through (-2, 3) and (0,9) in slope intercept form .

Review

1) What is the formula for slope?

2) What is the slope-intercept form of a line?

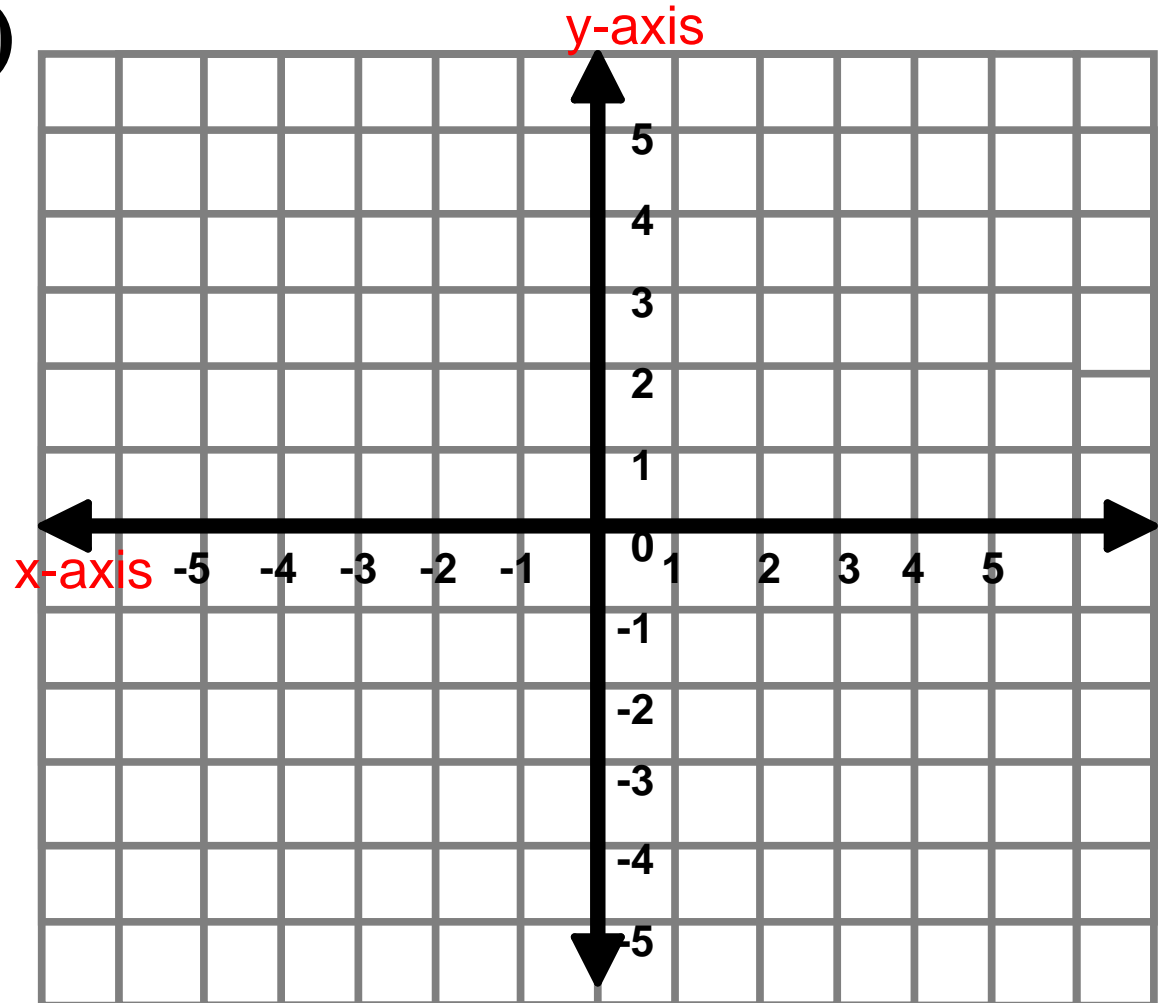3) What is the point-slope form of a line?

Review

4) Graph the equation
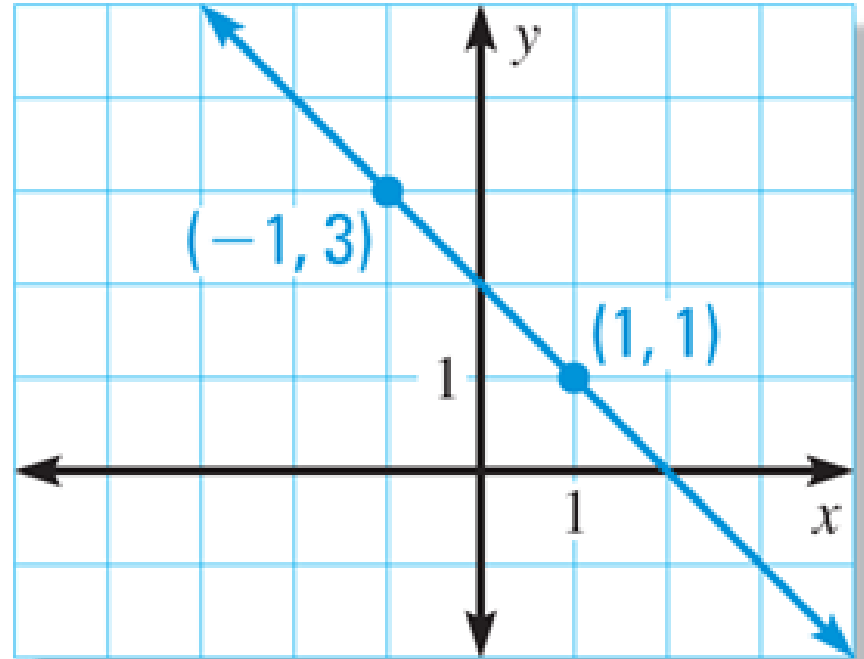
$$y + 2 = -3(x - 4)$$

Review

5)   Graph the equation

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

7) Write an equation of the line the graph in point-slope form.

Writing an equation of a line in Slope-Intercept form between two points

1) Write in slope-intercept form the equation of the line that passes through the points (4,8) and (-4,2).

   a) Find the slope.

   b) Plug in one of the slope and one of the given points, into the point-slope form of a line, and solve for y.

2) Write in slope-intercept form the equation of the line that passes through the points (-1, -1) and (1, 5).

    a) Find the slope.

    b) Plug in one of the slope and one of the given points, into the point-slope form of a line, and solve for y.

Practice

3) Write an equation of the line in slope-intercept form that passes through the points (-2, 3), (2, 7).

Practice

4) Write an equation of the line in slope-intercept form that passes through the points (1, -2), (-5,4).