Name _____   Block _____   Date _____
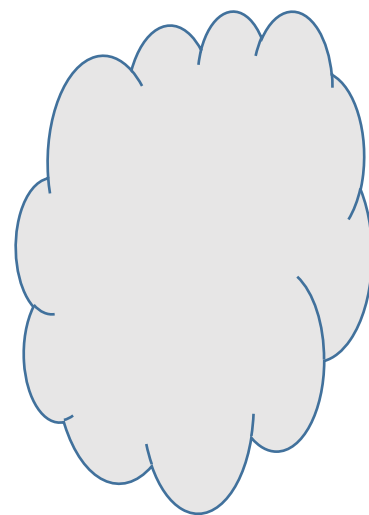
Review: Use slope-intercept form to find the equation of the line that satisfies the given information.

    1) (3,2); m=4   2) (0,3); m= 5   3) (-1,2); m= 6

Essential Question:

Point – Slope Form

    I.   Use Point-Slope to Write the Equation of a Line

       What is y_1?   **What is x_1?**   **What is m?**

Writing an Equation in Point-Slope Form:

Find an equation whose slope and one point is given:

    1)   (-3, 5), m = - 2   2) (-2, -4), m = 3   3) (1, -2), m = -1

Now re-write each answer in 1-3 in slope-intercept form (y = mx +b)
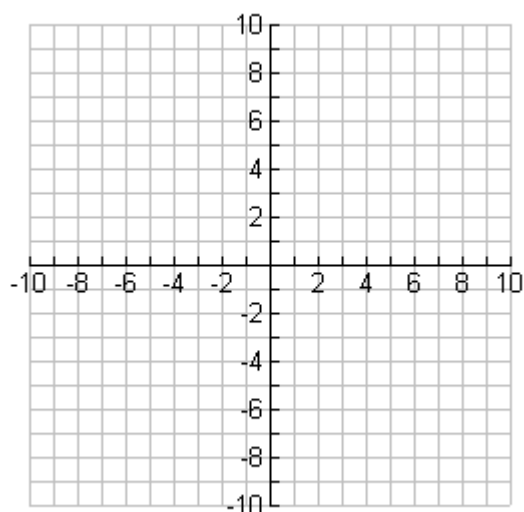
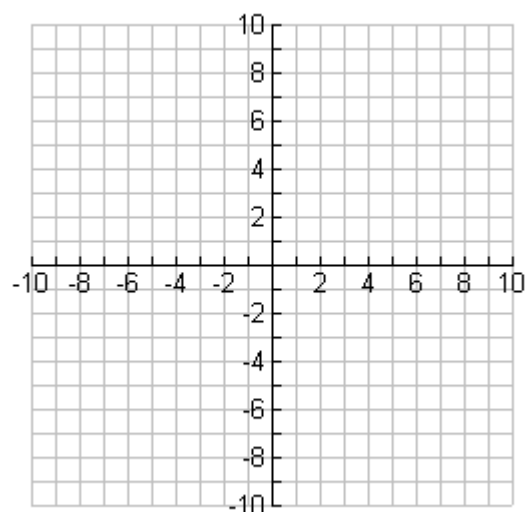   1)   2)   3)

Graphing Using Point-Slope Form

1. What is the graph of: $y - 1 = \frac{2}{3}(x - 2)$?

2. What is the graph of: $y + 7 = -\frac{4}{5}(x - 4)$?

3. What is the graph of: $y + 3 = 2(x + 3)$?