Warm Up:

Determine the equation of a line that is:

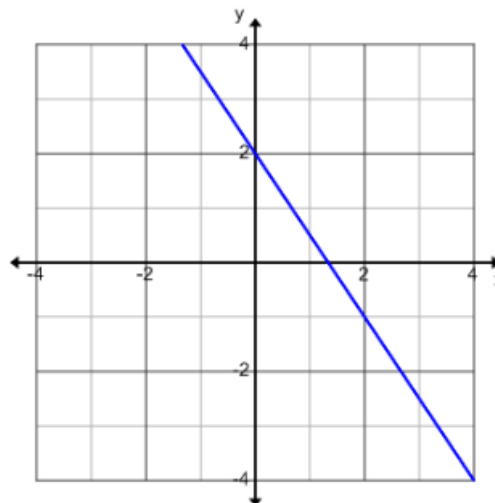a) parallel to 3x - 8y - 48 = 0   b) perpendicular to 3x - 8y - 48 = 0

U6D5   Finding Equation of a Line (Given the Slope and One Point)

Recall:

Finding the equation of a line from the graph.

*Notice: the point (2, -1) is on the line.

Example 1: Determine the equation of a line passing through the point (4,5) with a slope of -2.

Example 2:

Determine the equation of a line that has a slope of $\frac{5}{6}$ and passes through the point (10,-4).

Example 3: Find the equation of a line..

    a) parallel to $y = -\frac{1}{4}x - 6$, passing through (3,1)

    b) perpendicular to $y = \frac{1}{3}x - 20$, and passing through (3,-7).

    c) parallel to the *y-axis*, passing through (-3,-6)

    d) perpendicular to x = 7, passing through the origin.

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