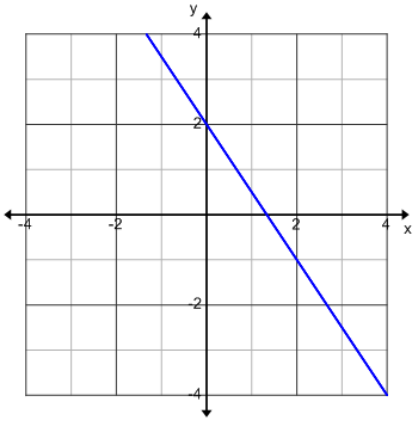
MPM 1DI - Unit 5
Linear Relations

Day 5
Finding Equation of a Line
(Given the Slope and One Point)

Recap : Finding equation of a line from the graph

Find the equation of the following 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 $\frac{2}{5}$ 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.

Assigned work

Pg 335-337 # 1(ace), 2, 3, 5, 6, 8