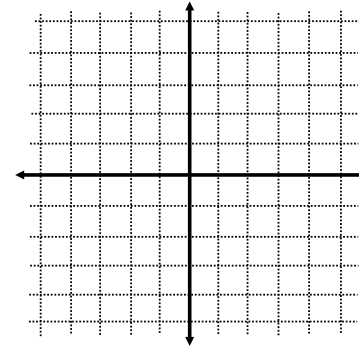


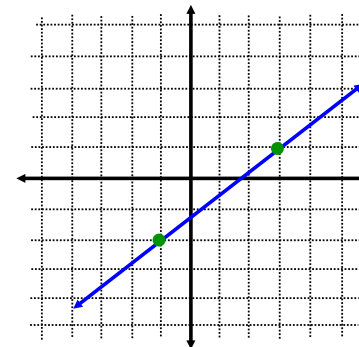
## 6.5 Point-Slope Form

Find the equation of the line that passes through  $(2, 1)$  with  $m = \frac{4}{3}$



Ex. Identify the slope and a point on the following line:  $y + 3 = -\frac{3}{5}(x - 2)$

Ex. Write the equation of this line in point-slope form and in slope-intercept form.



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

a) is parallel to  $y = \frac{2}{3}x + 7$

b) is perpendicular to  $y = \frac{2}{3}x + 7$