Math099 Week 3 hand-in assn

To complete this for submission, you need to

a) Show the solution, not just the answers

b) Draw a sketch of the graph. This is just a sketch, the purpose of which is to show the slope and the y-intercept, so you do not need to use a grid or graphing software.

c) Express the equation of the line in 2 different formats: slope – y intercept form, and general form.

The question: Find an equation for a line perpendicular to the line

$3x + 4y = -5,$ and passing through $(6, -2)$.

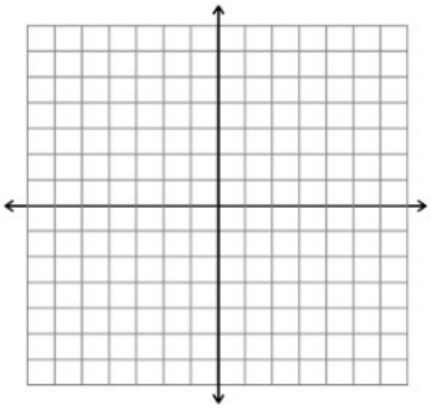
Slope-y intercept form:_____

General form: _____

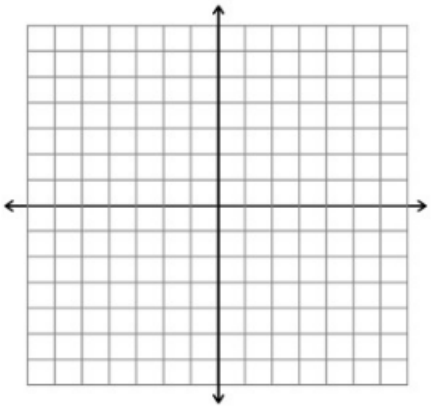
Graph:

Graph the lines, remembering to put arrows on the ends. For the inequality, shade the half plane and make the boundary line solid.

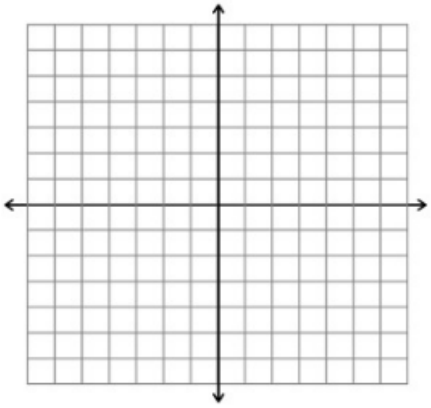
$x = 4$



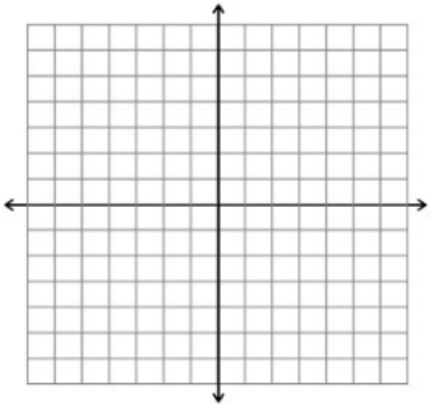
$y = \frac{-8}{5}x + 7$



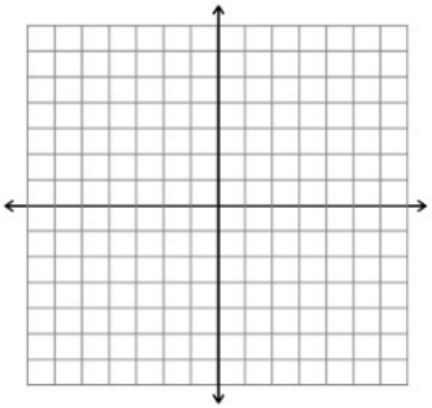
$y = 4x$



$y \geq \frac{5}{3}x - 1$



$y > -3$



$x + y < -5$