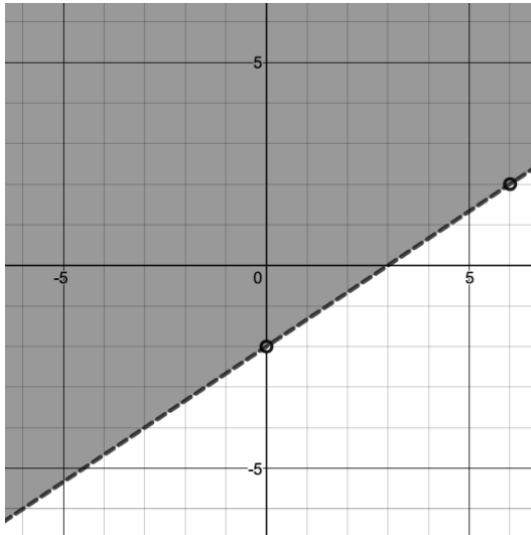


Learning Guide 15 - Test A

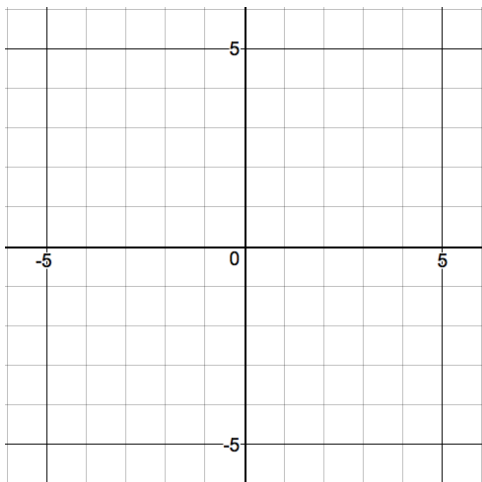
TOTAL: /13

- 1) What is the linear inequality shown below? (2 marks)

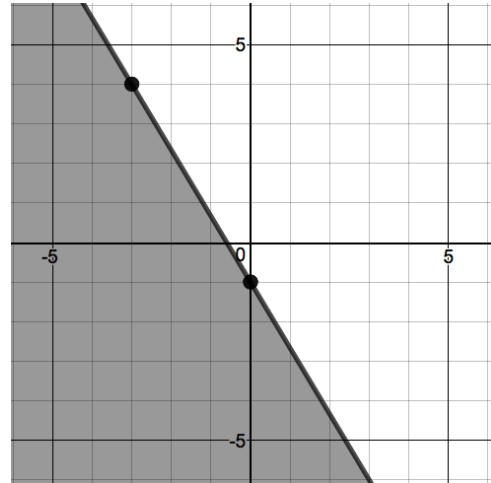


Inequality: _____

- 2) Graph the solution to the following linear inequality. (2 marks)
 $2x - 4y + 8 \leq 0$

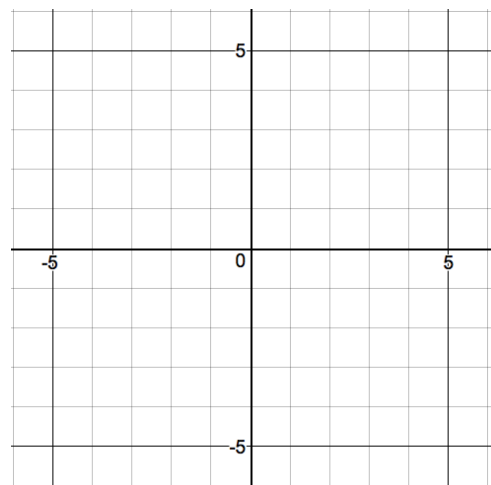


- 3) What is the linear inequality shown below? (2 marks)

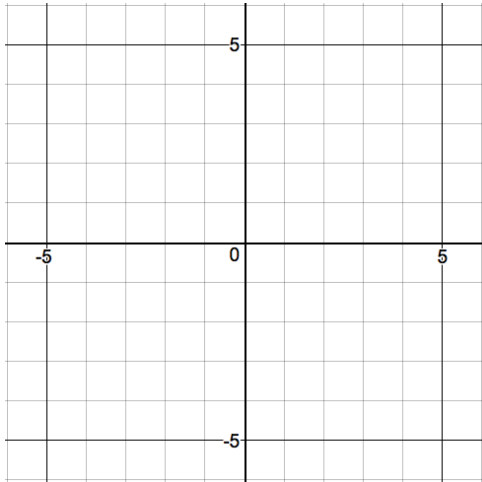


Inequality: _____

- 4) Graph the solution to the following linear inequality. (2 marks)
 $3x - 2y - 6 > 0$



- 5) The points P(2,3) and Q(-1,-4) are included on the boundary line of an inequality. A test point of (0,0) proves to be part of the solution. (2 marks)
Graph the resulting inequality on the grid provided.



- 6) A sports store makes a profit of \$50 on every pair of cross-country skis sold and \$125 on every set of snowshoes sold. The manager's goal is to have a profit of at least \$700 per day from the sales of these two items. If x represents the number of pairs of cross-country skis sold and y represents the number of pairs of snowshoes sold:

a) circle the inequality which models sales that meet/exceed the daily profit goal. (1 mark)
 $50y + 125x \leq 700$ $50y + 125x > 700$ $50x + 125y \geq 700$ $50x - 125y < 700$

b) graph and label the resulting inequality below. (2 marks)

