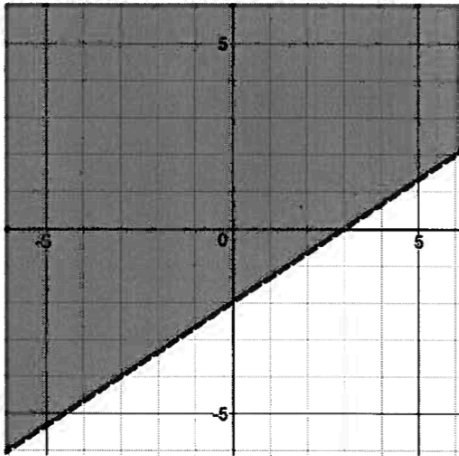


Learning Guide 15 - Test A

TOTAL:

13

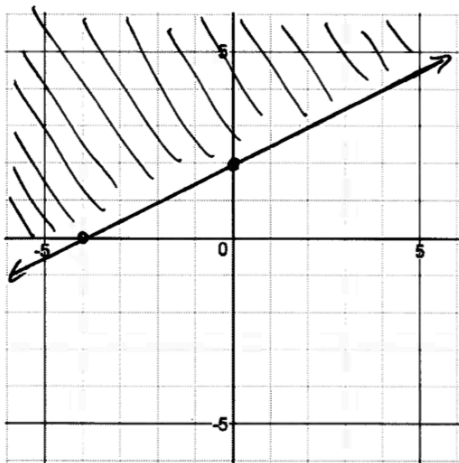
- 1) What is the linear inequality shown below? (2 marks)



2

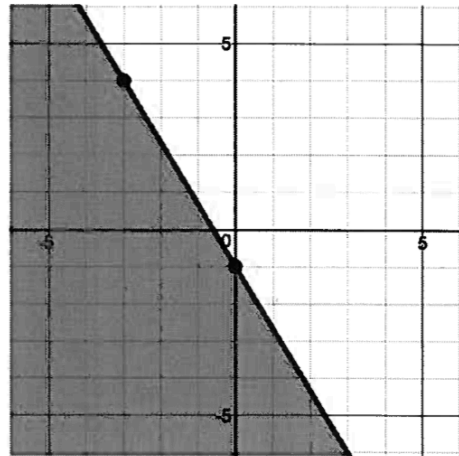
Inequality: $y > \frac{2}{3}x - 2$
OR $2x - 3y - 6 < 0$

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



2

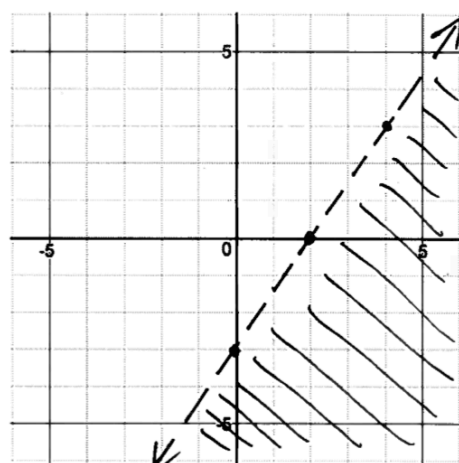
- 3) What is the linear equality shown below? (2 marks)



2

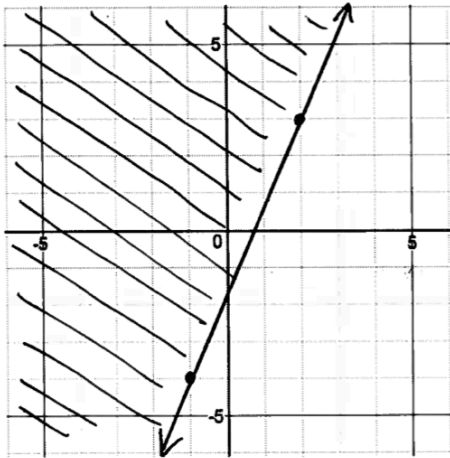
Inequality: $y \leq -\frac{5}{3}x - 1$
OR $5x + 3y + 3 \leq 0$

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



2

- 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.



1/2

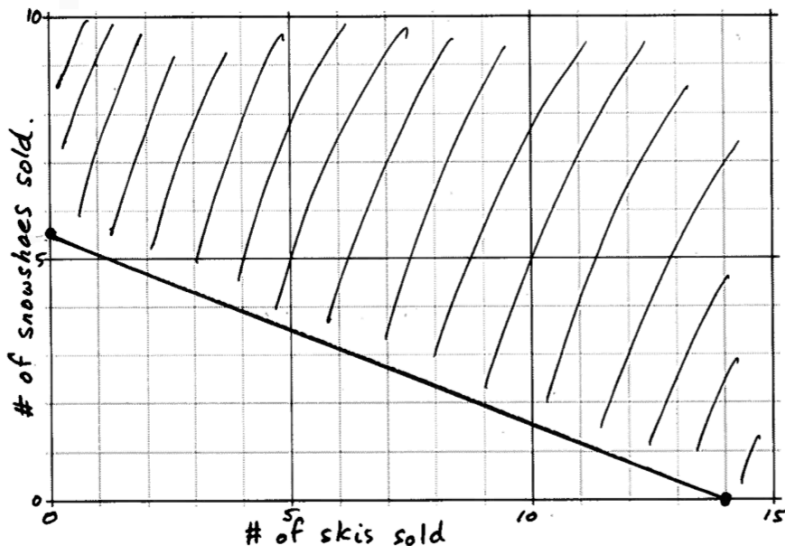
- 6) A sports store makes a profit of \$50 on every pair of cross-country skis sold and \$125 on every set of snowshoes sold. The manager's goal is to have a profit of at least \$700 per day from the sales of these two items. If x represents the number of pairs of cross-country skis sold and y represents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

a) Circle the inequality which models the combinations of sales that will meet (or exceed) the daily profit goal. (1 mark)

$50y + 125x \leq 700$
 $50y + 125x > 700$
 $50x + 125y \geq 700$
 $50x - 125y < 700$

1

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



1/2

Whole number (x,y) solutions only in the shaded area actually