

Name : \_\_\_\_\_

# Graphing Linear Inequalities

Sheet 1

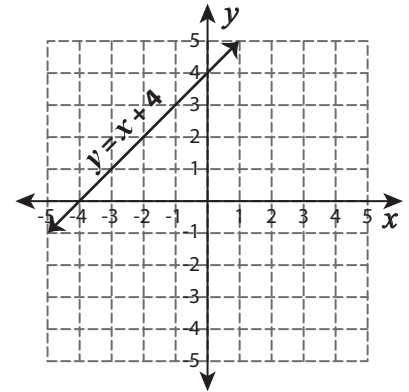
1) a) Shade the half-plane that contains the point  $(-2, 0)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(-5, -4)$  a solution of  $y \leq x + 4$ ?

\_\_\_\_\_



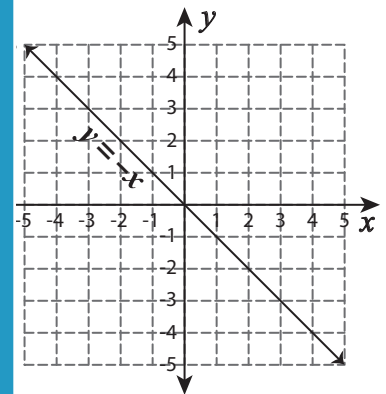
2) a) Shade the half-plane that does not contain the point  $(-2, 0)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(-2, -3)$  a solution of  $y < -x + 1$ ?

\_\_\_\_\_



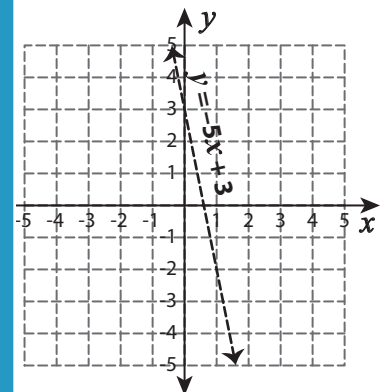
3) a) Shade the half-plane that does not contain the point  $(1, 5)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(1, 5)$  a solution of  $y < -5x + 3$ ?

\_\_\_\_\_



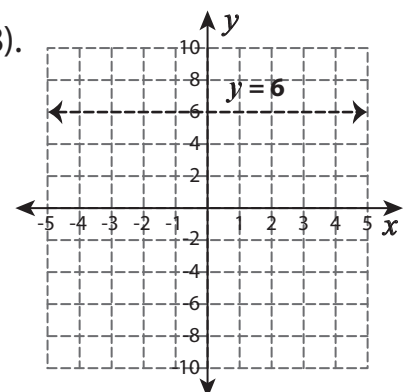
4) a) Shade the half-plane that does not contain the point  $(-5, 8)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(2, -1)$  a solution of  $y > 6$ ?

\_\_\_\_\_



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**Graphing Linear Inequalities**

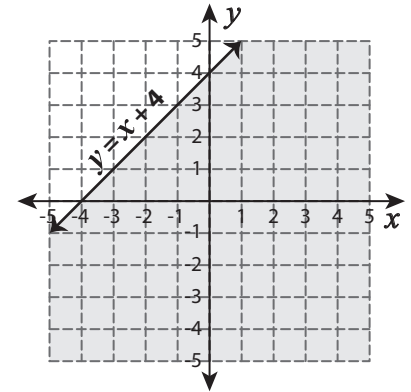
1) a) Shade the half-plane that contains the point  $(-2, 0)$ .

b) Write the inequality that represents the graph.

                   $y \leq x + 4$                   

c) Is  $(-5, -4)$  a solution of  $y \leq x + 4$ ?

                  **Yes**                  



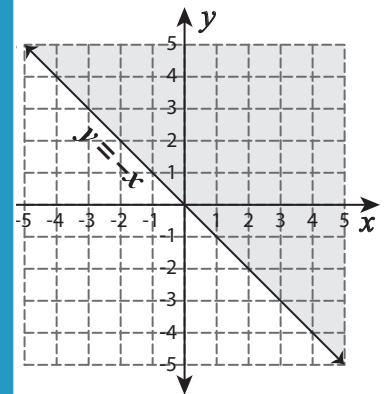
2) a) Shade the half-plane that does not contain the point  $(-2, 0)$ .

b) Write the inequality that represents the graph.

                   $y \geq -x$                   

c) Is  $(-2, -3)$  a solution of  $y \geq -x$ ?

                  **No**                  



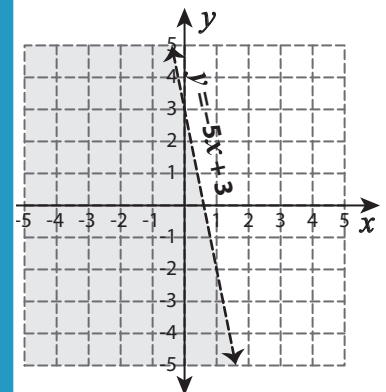
3) a) Shade the half-plane that does not contain the point  $(1, 5)$ .

b) Write the inequality that represents the graph.

                   $y < -5x + 3$                   

c) Is  $(1, 5)$  a solution of  $y < -5x + 3$ ?

                  **Yes**                  



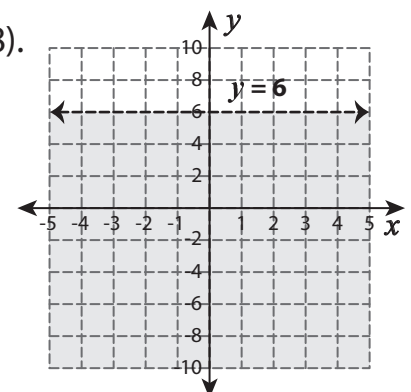
4) a) Shade the half-plane that does not contain the point  $(-5, 8)$ .

b) Write the inequality that represents the graph.

                   $y < 6$                   

c) Is  $(2, -1)$  a solution of  $y > 6$ ?

                  **No**                  

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