

# Graphing Linear Inequalities

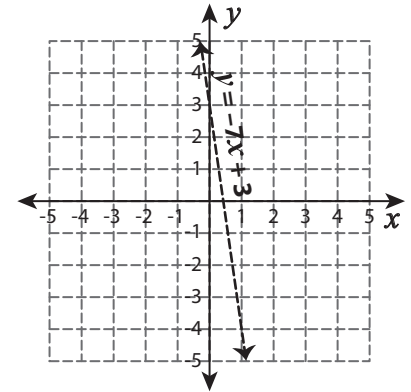
1) a) Shade the half-plane that contains the point  $(-1, 1)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(0, 3)$  a solution of  $y < -7x + 3$ ?

\_\_\_\_\_



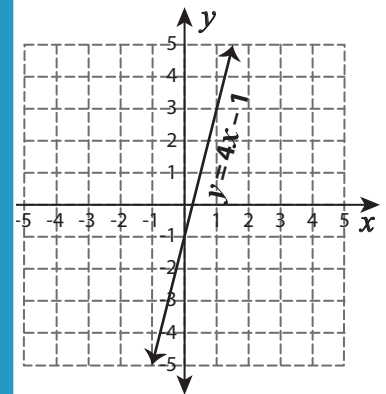
2) a) Shade the half-plane that does not contain the point  $(-1, 1)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(2, -2)$  a solution of  $y > 4x - 1$ ?

\_\_\_\_\_



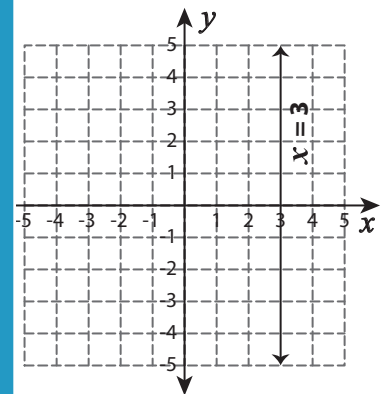
3) a) Shade the half-plane that does not contain the point  $(-4, -6)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(4, -4)$  a solution of  $x = 3$ ?

\_\_\_\_\_



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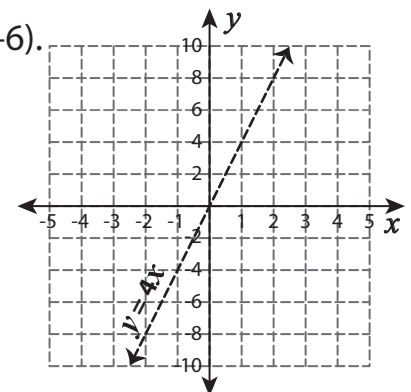
4) a) Shade the half-plane that does not contain the point  $(-4, -6)$ .

b) Write the inequality that represents the graph.

\_\_\_\_\_

c) Is  $(-3, 4)$  a solution of  $y > 4x$ ?

\_\_\_\_\_



**Graphing Linear Inequalities**

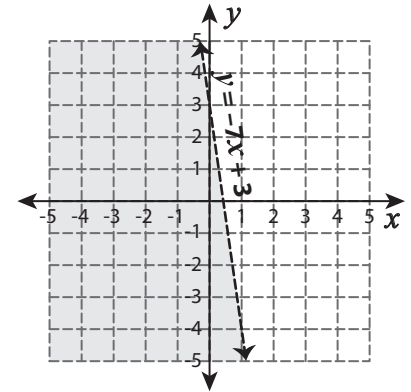
1) a) Shade the half-plane that contains the point  $(-1, 1)$ .

b) Write the inequality that represents the graph.

$$\underline{y < -7x + 3}$$

c) Is  $(0, 3)$  a solution of  $y < -7x + 3$ ?

**No**



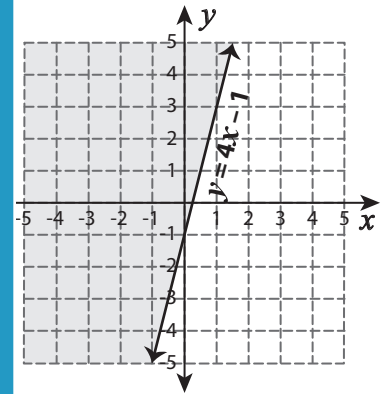
2) a) Shade the half-plane that contains the point  $(-1, 1)$ .

b) Write the inequality that represents the graph.

$$\underline{y \geq 4x - 1}$$

c) Is  $(2, -2)$  a solution of  $y \geq 4x - 1$ ?

**Yes**



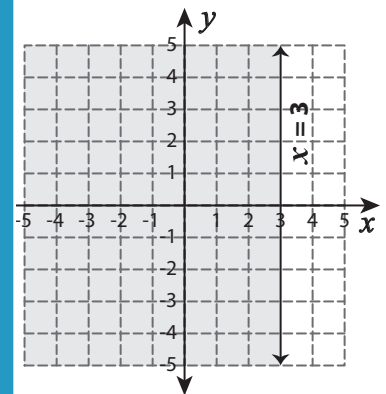
3) a) Shade the half-plane that contains the point  $(-1, 1)$ .

b) Write the inequality that represents the graph.

$$\underline{x \leq 3}$$

c) Is  $(4, -4)$  a solution of  $x \leq 3$ ?

**No**



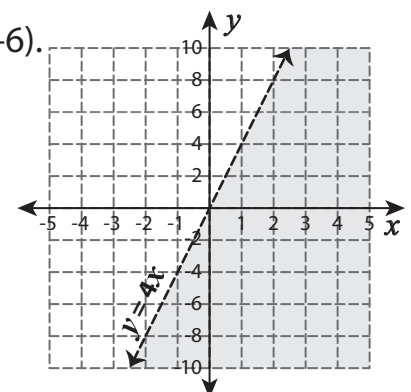
4) a) Shade the half-plane that does not contain the point  $(-4, -6)$ .

b) Write the inequality that represents the graph.

$$\underline{y < 4x}$$

c) Is  $(-3, 4)$  a solution of  $y > 4x$ ?

**Yes**

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