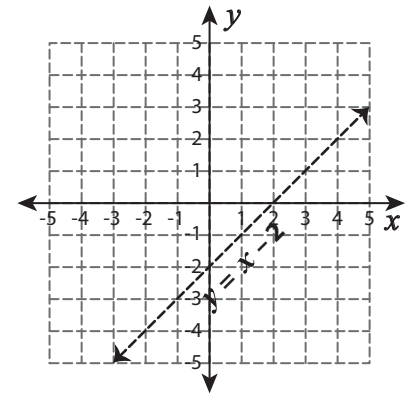


Graphing Linear Inequalities

1) a) Shade the half-plane that contains the point (3, 4).

b) Write the inequality that represents the graph.

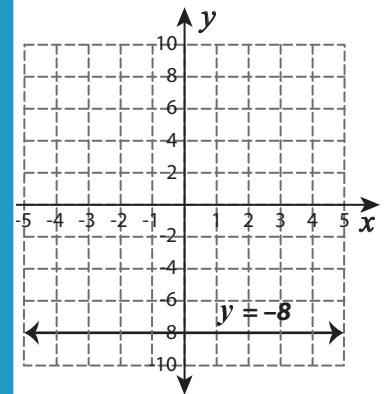
c) Is $(-4, -1)$ a solution of $y > x - 2$?



2) a) Shade the half-plane that does not contain the point $(0, -10)$.

b) Write the inequality that represents the graph.

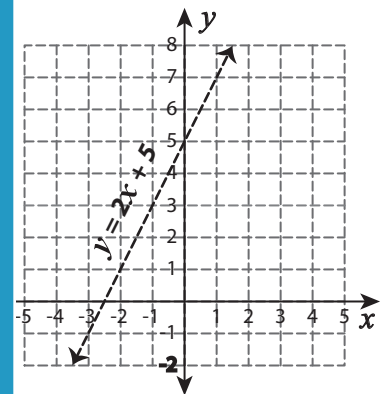
c) Is $(0, -10)$ a solution of $y < -8$?



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

b) Write the inequality that represents the graph.

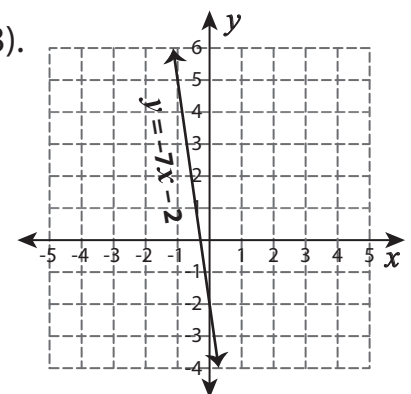
c) Is $(1, 5)$ a solution of $y < 2x + 5$?



4) a) Shade the half-plane that does not contain the point $(0, -3)$.

b) Write the inequality that represents the graph.

c) Is $(-1, 4)$ a solution of $y \leq -7x - 2$?



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Graphing Linear Inequalities

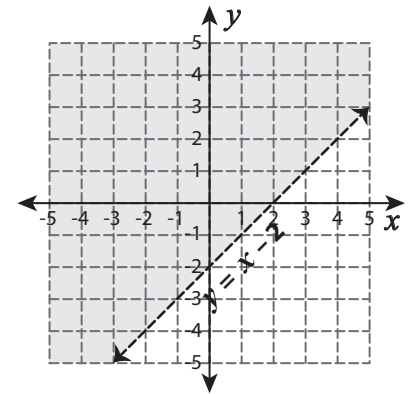
1) a) Shade the half-plane that contains the point (3, 4).

b) Write the inequality that represents the graph.

$$\underline{y > x - 2}$$

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

Yes



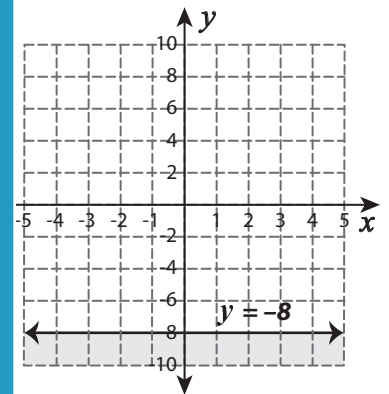
2) a) Shade the half-plane that does not contain the point (0, -10).

b) Write the inequality that represents the graph.

$$\underline{y \leq -8}$$

c) Is $(0, -10)$ a solution of $y \leq -8$?

No



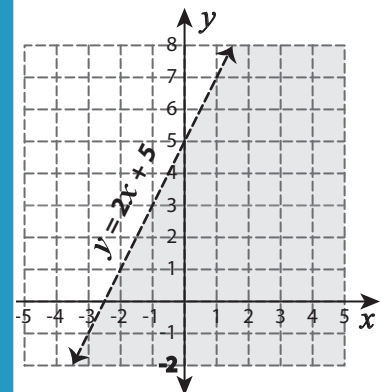
3) a) Shade the half-plane that does not contain the point (1, 5).

b) Write the inequality that represents the graph.

$$\underline{y < 2x + 5}$$

c) Is $(1, 5)$ a solution of $y < 2x + 5$?

No



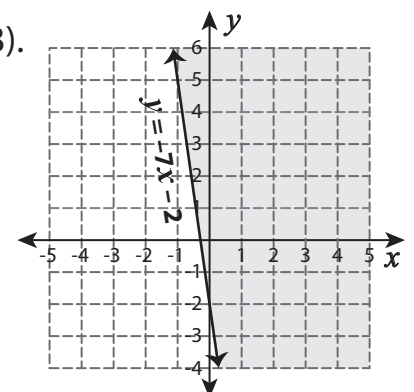
4) a) Shade the half-plane that does not contain the point $(0, -3)$.

b) Write the inequality that represents the graph.

$$\underline{y \geq -7x - 2}$$

c) Is $(-1, 4)$ a solution of $y \geq -7x - 2$?

Yes



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