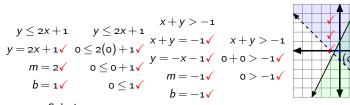
Graphical Solutions of Systems of Linear Inequalities in Two Variables

Total points = 47

1. Solution



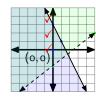
2. Solution

$$y > \frac{4}{5}x - 2 \qquad y > \frac{4}{5}x - 2 \qquad y \le -2x + 3 \qquad y \le -2x + 3$$

$$y = \frac{4}{5}x - 2\checkmark \qquad 0 > \frac{4}{5}(0) - 2\checkmark \qquad y = -2x + 3\checkmark \qquad 0 \le -2(0) + 3\checkmark$$

$$m = \frac{4}{5}\checkmark \qquad 0 > 0 - 2\checkmark \qquad m = -2\checkmark \qquad 0 \le 0 + 3\checkmark$$

$$b = -2\checkmark \qquad 0 > -2\checkmark \qquad b = 3\checkmark \qquad 0 \le 3\checkmark$$



3. Solution

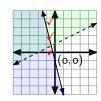
$$x-2y < -2$$

$$-2y < -x - 2\sqrt{ }$$

$$-\frac{2y}{-2} < \frac{-x}{-2} - \frac{2}{-2} \checkmark 0 - 2(0) < -2\sqrt{ } y = -4x - 1 \checkmark 0 \le -4(0) - 1\sqrt{ }$$

$$y = \frac{1}{2}x + 1\sqrt{ } 0 - 0 < -2\sqrt{ } m = -4\sqrt{ } 0 \le 0 - 1\sqrt{ }$$

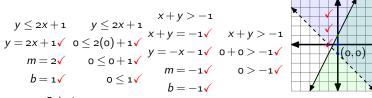
$$m = \frac{1}{2}\sqrt{ } 0 < -2\sqrt{ } b = -1\sqrt{ } 0 \le -1\sqrt{ }$$



Graphical Solutions of Systems of Linear Inequalities in Two Variables

Total points = 47

1. Solution



2. Solution

$$y > \frac{4}{5}x - 2 \qquad y > \frac{4}{5}x - 2 \qquad y \le -2x + 3 \qquad y \le -2x + 3$$

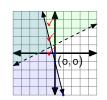
$$y = \frac{4}{5}x - 2\checkmark \qquad 0 > \frac{4}{5}(0) - 2\checkmark \qquad y = -2x + 3\checkmark \qquad 0 \le -2(0) + 3\checkmark$$

$$m = \frac{4}{5}\checkmark \qquad 0 > 0 - 2\checkmark \qquad b = 3\checkmark \qquad 0 \le 3\checkmark$$

$$b = -2\checkmark \qquad 0 > -2\checkmark \qquad b = 3\checkmark$$



3. Solution



1. Solution

$$y \le 2x + 1 \qquad y \le 2x + 1 \qquad x + y > -1$$

$$y = 2x + 1 \checkmark \quad 0 \le 2(0) + 1 \checkmark \quad x + y = -1 \checkmark \quad x + y > -1$$

$$m = 2 \checkmark \quad 0 \le 0 + 1 \checkmark \quad y = -x - 1 \checkmark \quad 0 + 0 > -1 \checkmark$$

$$b = 1 \checkmark \quad 0 \le 1 \checkmark \quad b = -1 \checkmark$$

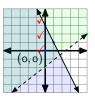
2. Solution

$$y > \frac{4}{5}x - 2 \qquad y > \frac{4}{5}x - 2 \qquad y \le -2x + 3 \qquad y \le -2x + 3$$

$$y = \frac{4}{5}x - 2\checkmark \qquad 0 > \frac{4}{5}(0) - 2\checkmark \qquad y = -2x + 3\checkmark \qquad 0 \le -2(0) + 3\checkmark$$

$$m = \frac{4}{5}\checkmark \qquad 0 > 0 - 2\checkmark \qquad m = -2\checkmark \qquad 0 \le 0 + 3\checkmark$$

$$b = -2\checkmark \qquad 0 > -2\checkmark \qquad b = 3\checkmark \qquad 0 \le 3\checkmark$$



3. Solution



Graphical Solutions of Systems of Linear Inequalities in Two Variables

Total points = 47

1. Solution

$$y \le 2x + 1 \qquad y \le 2x + 1 y = 2x + 1 \checkmark 0 \le 2(0) + 1 \checkmark x + y = -1 \checkmark x + y > -1 y = -x - 1 \checkmark 0 + 0 > -1 \checkmark b = 1 \checkmark 0 \le 1 \checkmark b = -1 \checkmark 0 > -1 -1$$

2. Solution

$$y > \frac{4}{5}x - 2 \qquad y > \frac{4}{5}x - 2 \qquad y \le -2x + 3 \qquad y \le -2x + 3$$

$$y = \frac{4}{5}x - 2\checkmark \qquad 0 > \frac{4}{5}(0) - 2\checkmark \qquad y = -2x + 3\checkmark \qquad 0 \le -2(0) + 3\checkmark$$

$$m = \frac{4}{5}\checkmark \qquad 0 > 0 - 2\checkmark \qquad m = -2\checkmark \qquad 0 \le 0 + 3\checkmark$$

$$b = -2\checkmark \qquad 0 > -2\checkmark \qquad b = 3\checkmark \qquad 0 \le 3\checkmark$$



3. Solution

