Systems of Equations and Inequalities:

Practice

1. Is $(2,3)$ a solution to

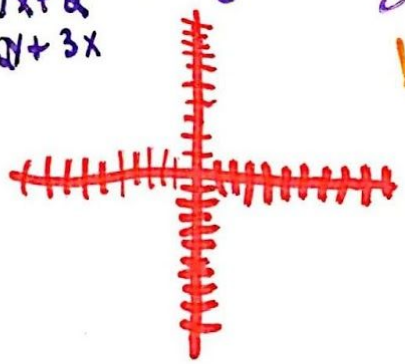
$y = x + 6$

$y = 7x + 3$?

2. Solve by graphing:

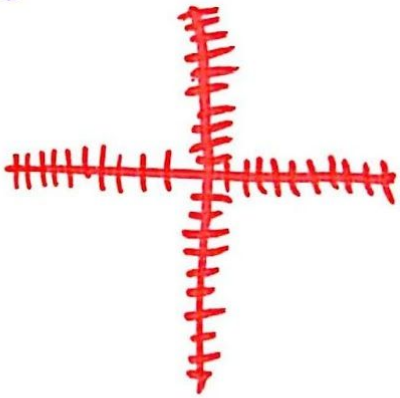
a. $y = 7x + 2$

$5 = y + 3x$



b. $3x + 4y = 16$

$y = 4x + 2$



3. Solve by substitution:

a. $y = 3x - 2$

$4 = 2x + 3y$

b. $y = 4x$

$y = x - 8$

c. $-3x + y = 9$

$4x + 3y = 10$

Systems of Equations and Inequalities: Practice

4. use elimination:

a. $3x - 4y = -18$
$4x + 4y = -3$

b. $8x + 2y = 25$
$-3x + 2y = -10$

c. $-y + 5x = -8$
$3y + 5x = 4$

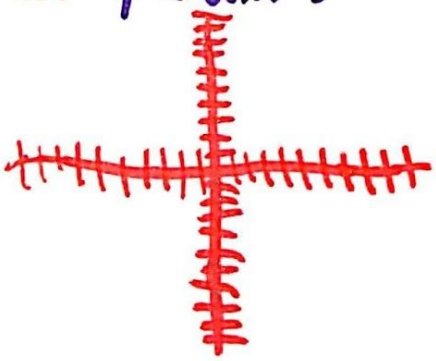
5. Identify solutions:

a. $(2, -2)$; $y < x - 3$

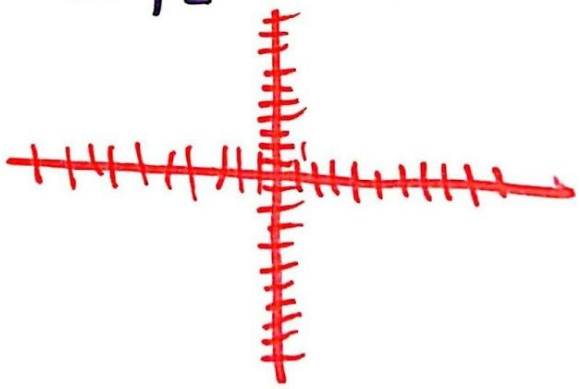
b. $(5, -4)$; $y > 2x - 13$

6. Graph:

a. $y < 2x + 3$



b. $y \geq 4x - 2$



Systems of Equations and Inequalities: Practice

7. Identify solutions:

a. $(3, 2)$; $y < -x + 5$, $y \leq x + 2$

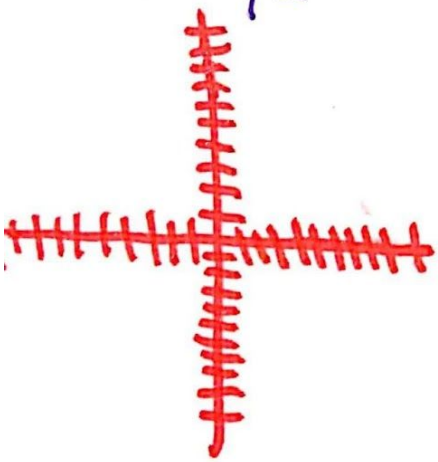
b. $(2, 1)$; $y > 3 + x$, $y \geq 4 + 2x$

c. $(\ , \ )$; $y \leq 5x + 7$, $y < x + 8$

8. Graph:

a. $y > x - 6$

$2x + 5y \leq 11$



b. $y \leq 3x + 2$

$2x + 3y \geq 12$