

7.1 Homework

Name: Answer Key

1) Show work to determine if the point of intersection is the Solution to BOTH equations.

$(4, -2)$

Equation 1: $2x + y = 6$

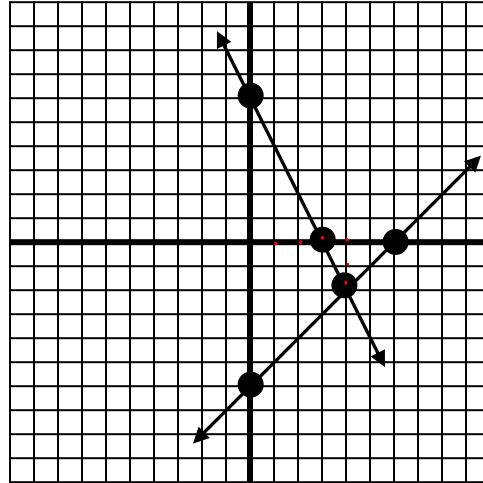
Equation 2: $-x + y = -6$

$2(4) + -2 = 6$

$8 - 2 = 6 \checkmark$

$-4 + -2 = -6$

$-6 = -6 \checkmark$



2) Determine if either of the given ordered pairs is a solution to the system of equation. Circle your answer or write "neither is the solution."

$2x + 3y = 13$

$-x - y = -6$

$2(5) + 3(0) = 13$

$10 = 13$ NO

$(5, 0)$

NO

$(0, 5)$

NO

$2(0) + 3(5) = 13$

$15 = 13$ NO

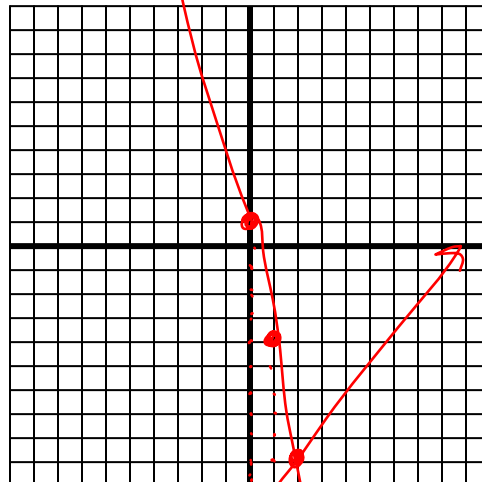
Graph each equation to estimate the solution to the system of equation.

3) $5x + y = 1$

$y = \frac{3}{2}x - 12$

$y = 1 - 5x$

$(2, -9)$



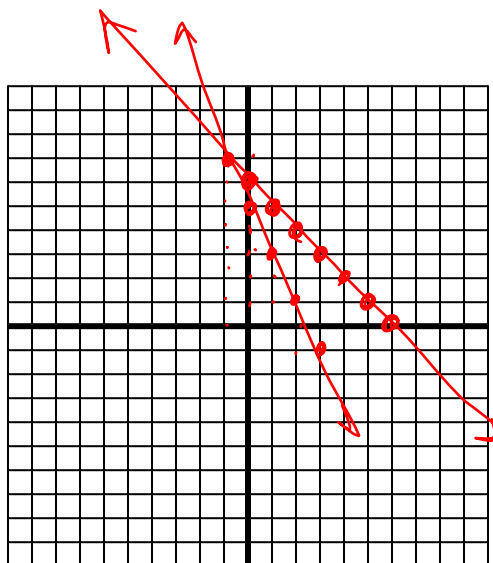
4) $x + y = 6$
 $4x + 2y = 10$

$y = 6 - x$

$\frac{2y = 10 - 4x}{2 \quad 2}$

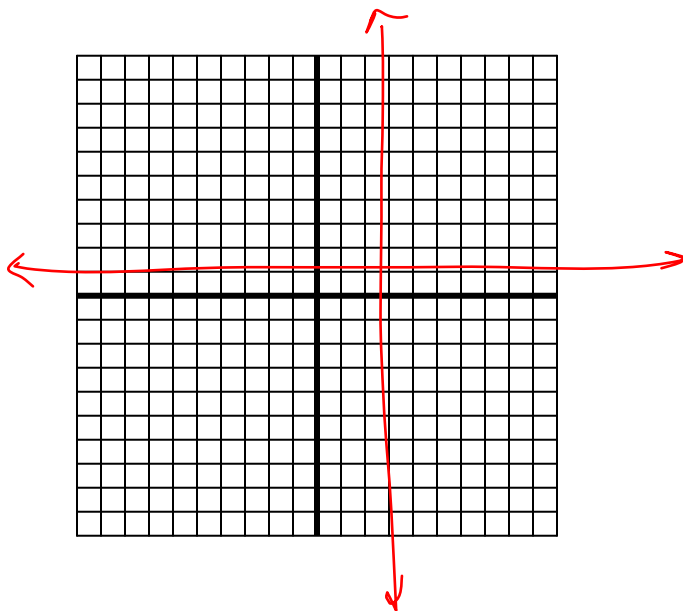
$y = 5 - 2x$

$(-1, 7)$



5) $x = 3$
 $y = 1$

$(3, 1)$



6) $4y = 3x + 16$
 $x = 4$

$(4, 7)$

