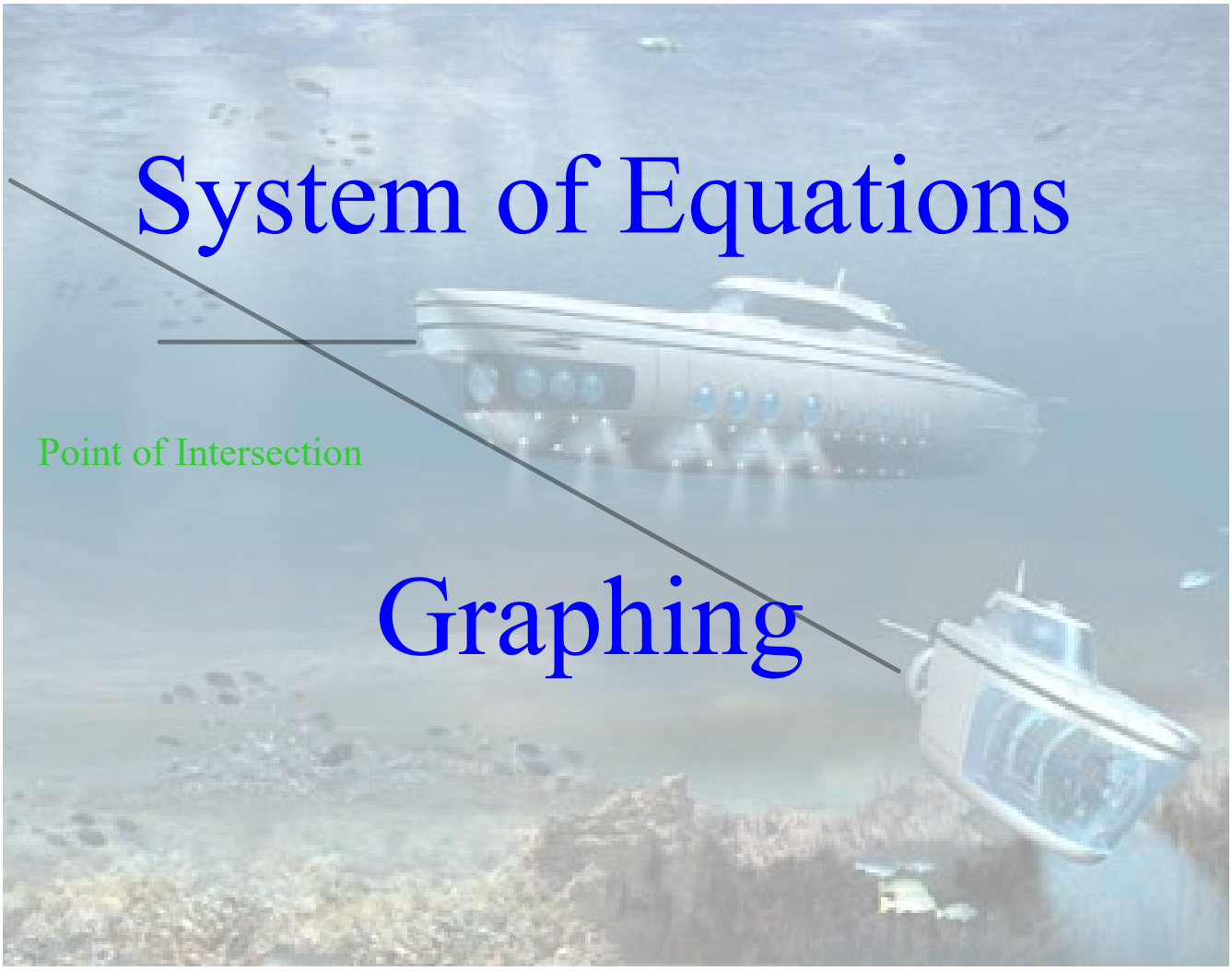

System of Equations
Point of Intersection
Graphing

Questions from homework

Substitution Method:

(I) $7x+y=6$ $\longrightarrow$ (I) $7x+y=6$

$-7x \quad -7x$

$y=-7x+6$

$5x-5y=10$

(II) $y=-7x+6$

$y=-7(1)+6$

$y=-7+6$

$y=-1$

(III) $(1,-1)$

(II) $5x-5y=10$

$5x-5(-7x+6)=10$

$5x+35x-30=10$ $\quad +30 \quad +30$

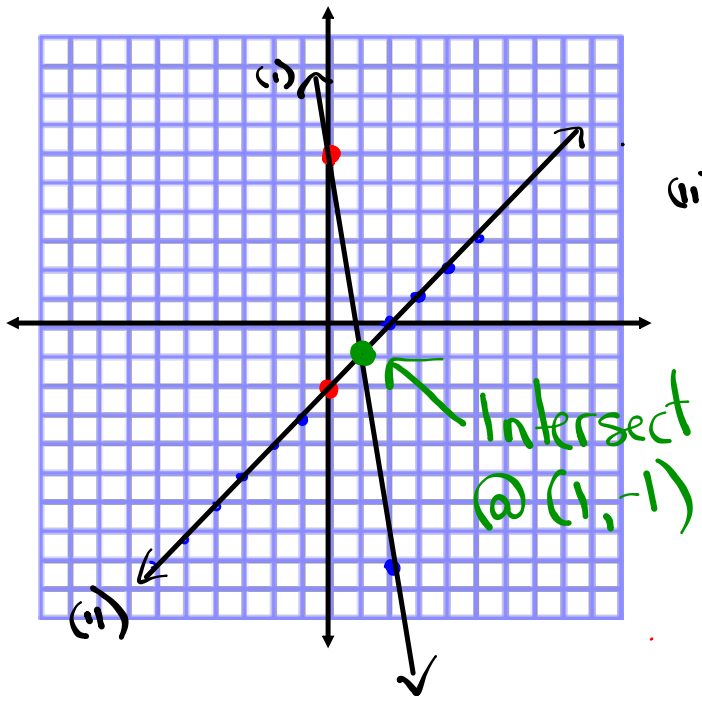
$\frac{40x}{40}=\frac{40}{40}$

$x=1$

Solve by graphing

$7x + y = 6$

$5x - 5y = 10$



(1). $7x + y = 6$

$y = -7x + 6$

$m = \frac{-7}{1}$

$b = 6$ (0,6)

(2) $5x - 5y = 10$

$-5y = -5x + 10$

$y = x - 2$

$m = \frac{1}{1}$

$b = -2$ (0,-2)

Homework

Kuta Software - Infinite Algebra 1 Name_____

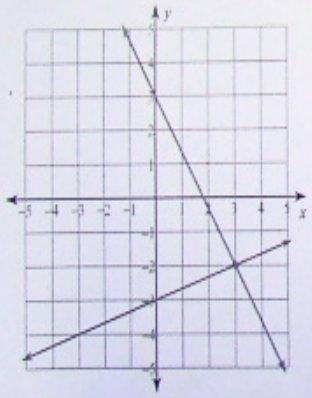
Solving Systems of Equations by Graphing

Date_____ Period____

Solve each system by graphing.

1) $y = -\frac{5}{3}x + 3$

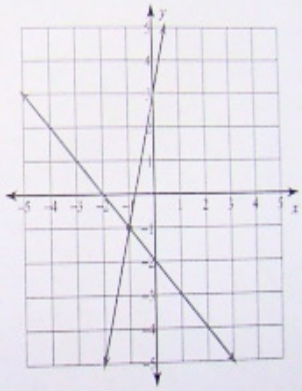
$y = \frac{1}{3}x - 3$



(3, −2)

2) $y = 4x + 3$

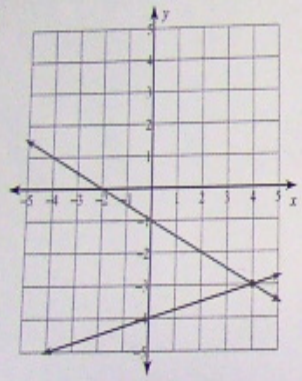
$y = -x - 2$



(−1, −1)

3) $y = -\frac{1}{2}x - 1$

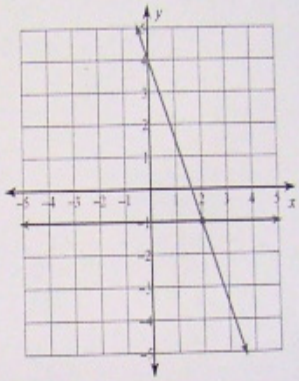
$y = \frac{1}{4}x - 4$



(4, −3)

4) $y = -1$

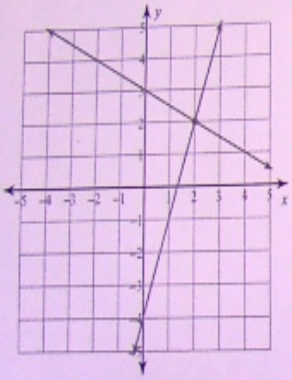
$y = -\frac{5}{2}x + 4$



(2, −1)

5) $y = 3x - 4$

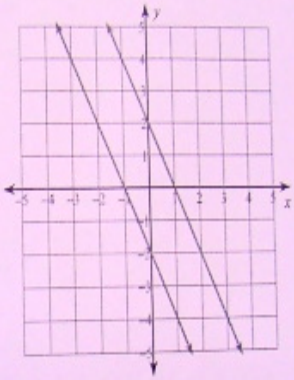
$y = -\frac{1}{2}x + 3$



(2, 2)

6) $y = -2x + 2$

$y = -2x - 2$



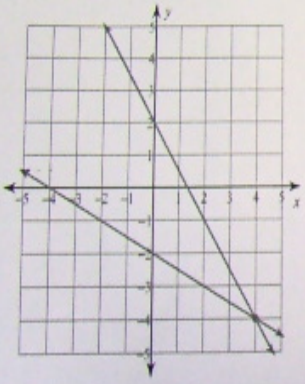
No solution

7) $y = -\frac{1}{2}x - 2$

8) $y = \frac{1}{3}x - 3$

7) $y = -\frac{1}{2}x - 2$

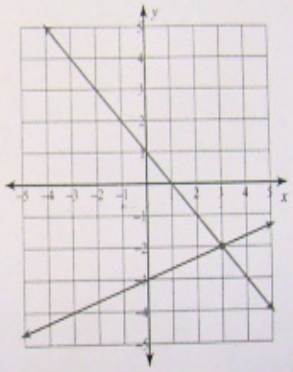
$y = -\frac{3}{2}x + 2$



(4, –4)

8) $y = \frac{1}{3}x - 3$

$y = -x + 1$



(3, –2)