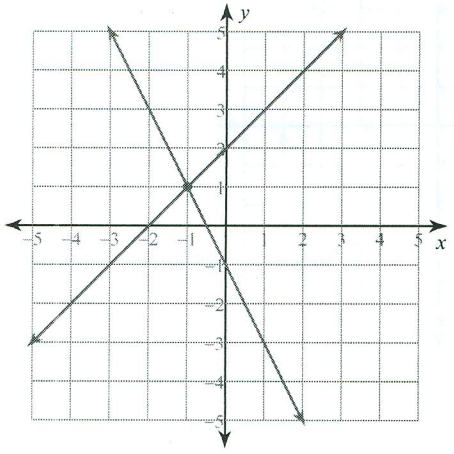
System of Equations #1

Date_____

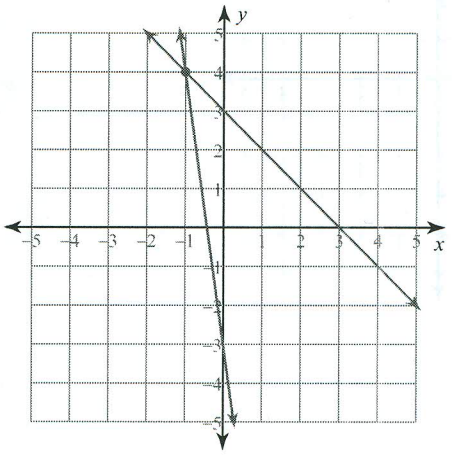
Solve each system by graphing

1) $y = x + 2$
$y = -2x - 1$



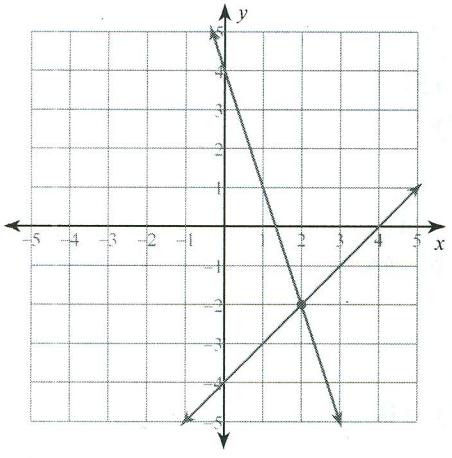
$(-1, 1)$

2) $y = -7x - 3$
$y = -x + 3$



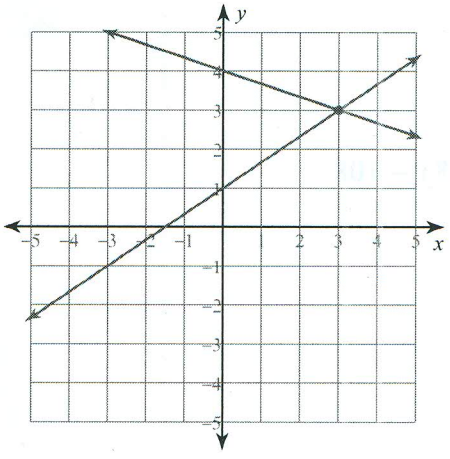
$(-1, 4)$

3) $y = x - 4$
$y = -3x + 4$



$(2, -2)$

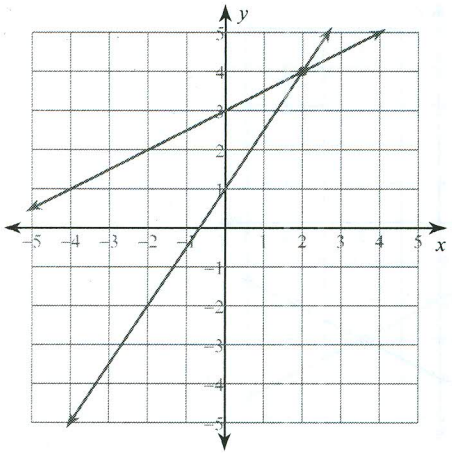
4) $y = \frac{2}{3}x + 1$
$y = -\frac{1}{3}x + 4$



$(3, 3)$

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

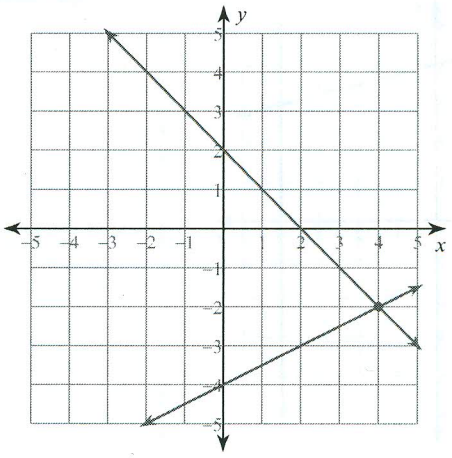
$y = \frac{3}{2}x + 1$



(2, 4)

6) $y = \frac{1}{2}x - 4$

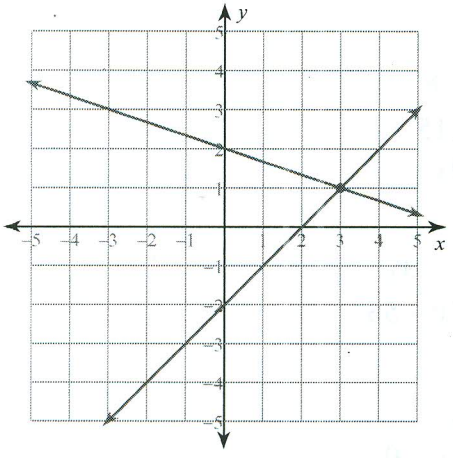
$y = -x + 2$



(4, –2)

7) $y = x - 2$

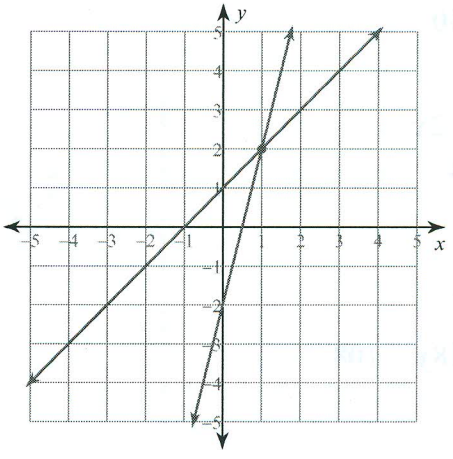
$y = -\frac{1}{3}x + 2$



(3, 1)

8) $y = x + 1$

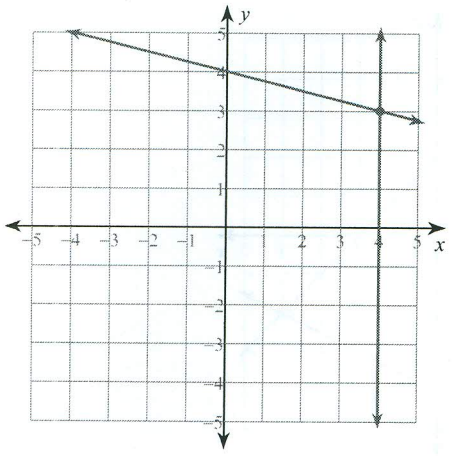
$y = 4x - 2$



(1, 2)

9) $y = -\frac{1}{4}x + 4$

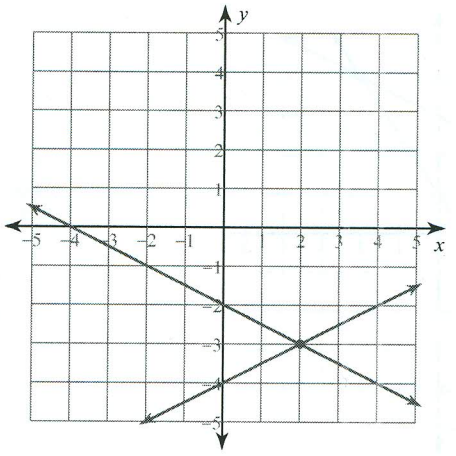
$x = 4$



(4, 3)

10) $y = \frac{1}{2}x - 4$

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



(2, –3)

Solve each system by mathematically.

11) $3x + 5y = -45$

$5y - 12x = 30$

(–5, –6)

12) $108 = -18y - 8x$

$3y - 2x = 12$

(–9, –2)

13) $-14y + 98 = 2x$

$14 = 7y + 6x$

(–7, 8)

14) $-3 = -\frac{3}{5}y + \frac{8}{15}x$

$81 + 6x = -9y$

(–9, –3)

15) $0 = -y - 8$

$0 = -28x + 18y - 108$

(–9, –8)

16) $0 = 98 + 14y - 4x$

$0 = -17x + 7y - 56$

(–7, –9)

17) $24 = x + 6y$

$3 - \frac{1}{6}x = y$

No solution

18) $40 + x = -5y$

$-10 - 7x - 5y = 0$

(5, –9)

19) $1 = -x - y$

$y = -1 - x$

Infinite number of solutions

20) $84 - 21y = -15x$

$9 - \frac{18}{7}x = -y$

(7, 9)