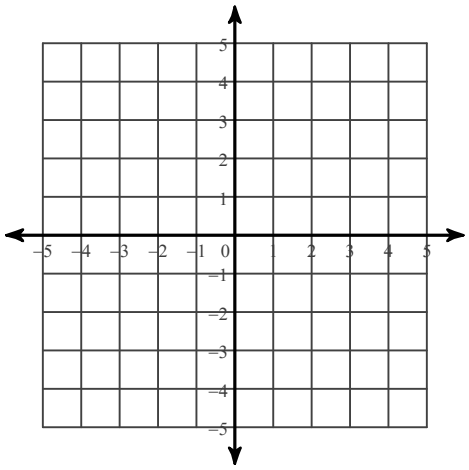
Worksheet Name_____

Solving Systems of Equations by Graphing

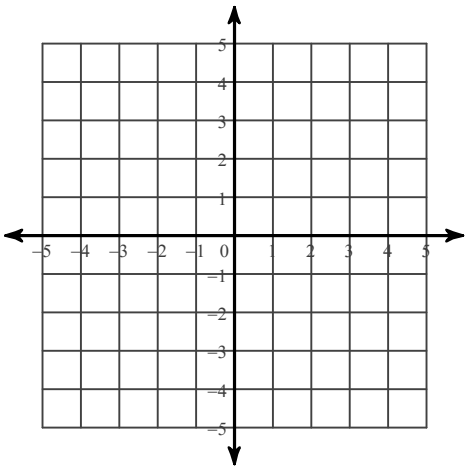
Date_____

Solve each system by graphing (find the point of intersection of the two lines) .

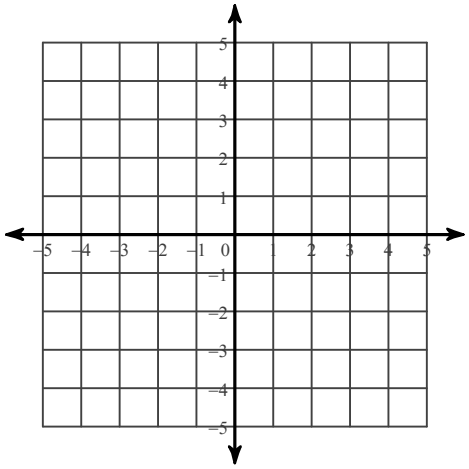
1) $y = 2x - 3$
$y = -3x + 2$



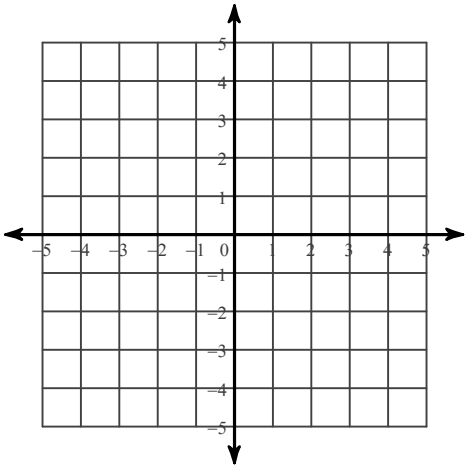
2) $y = -\frac{5}{3}x + 1$
$y = -\frac{1}{3}x - 3$



3) $y = -x + 1$
$x = 3$

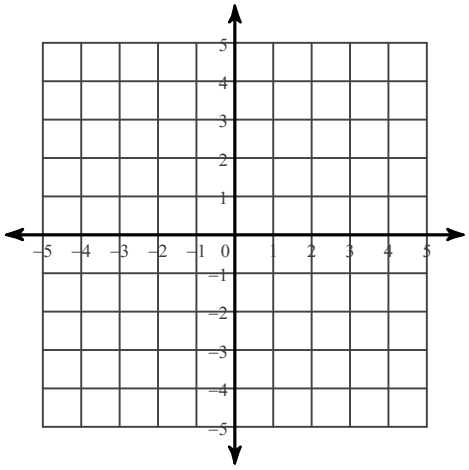


4) $y = 4x + 1$
$y = x - 2$



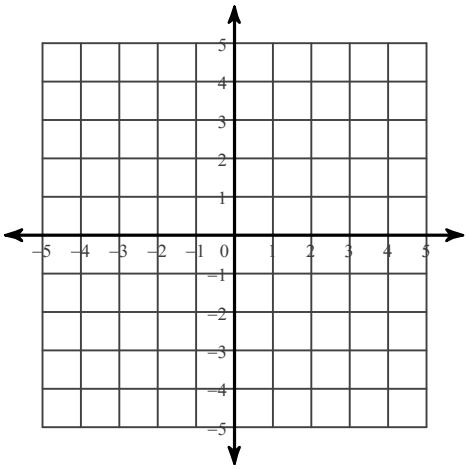
5) $y = -\frac{1}{3}x + 2$

$y = -2x - 3$



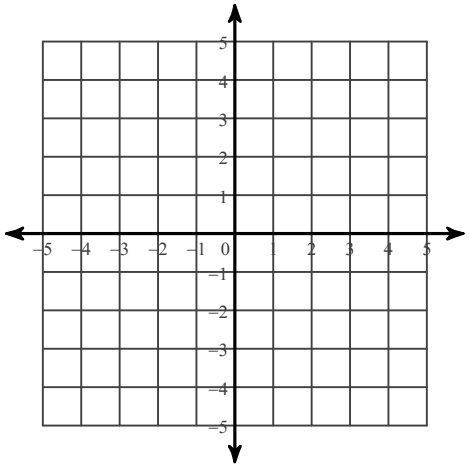
6) $y = -\frac{1}{4}x + 3$

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



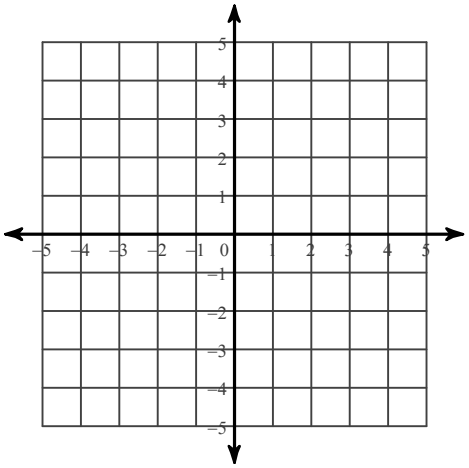
7) $y = \frac{4}{3}x - 3$

$y = 1$



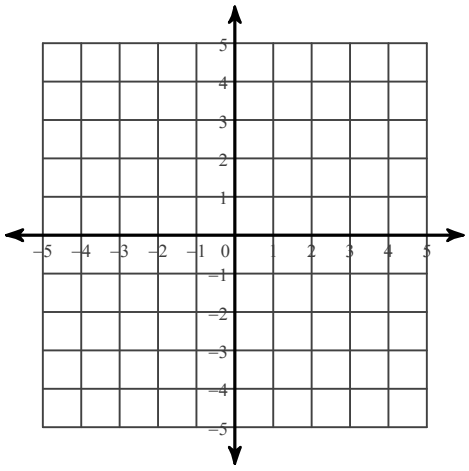
8) $y = -2x - 4$

$y = 4x + 2$



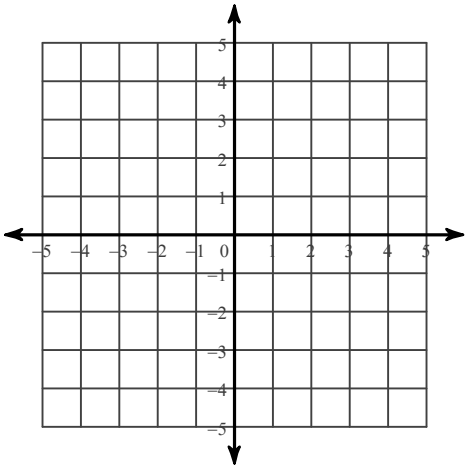
9) $y = -\frac{3}{2}x + 4$

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



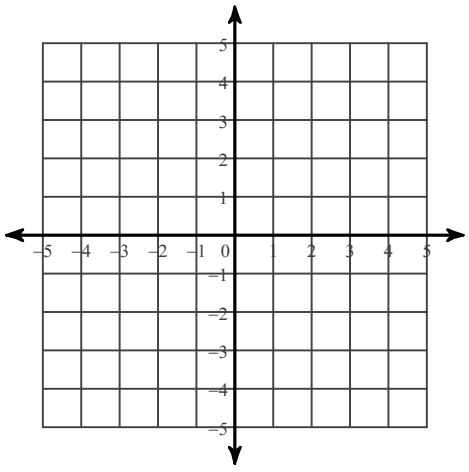
10) $y = 2x - 4$

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



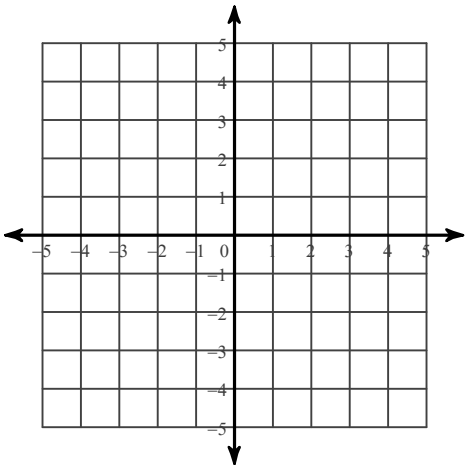
11) $5x + y = 4$

$x - y = 2$



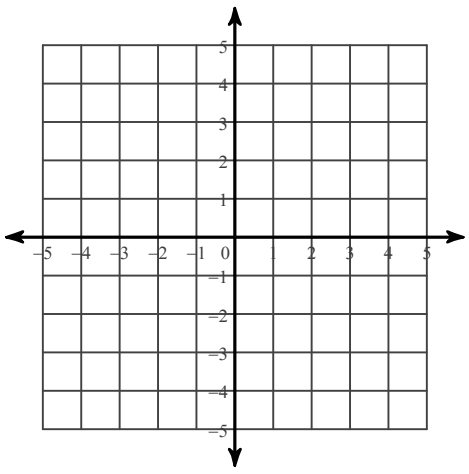
12) $x - 4y = -4$

$5x - 4y = 12$



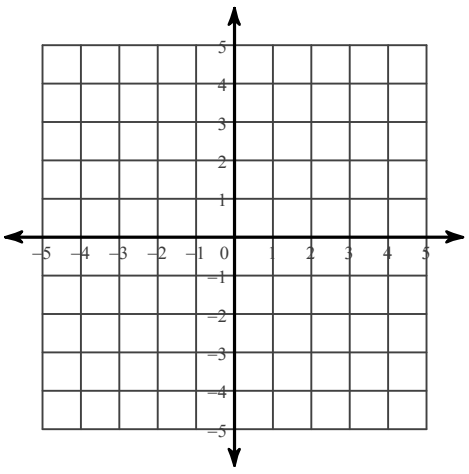
13) $x + y = 3$

$8x + y = -4$

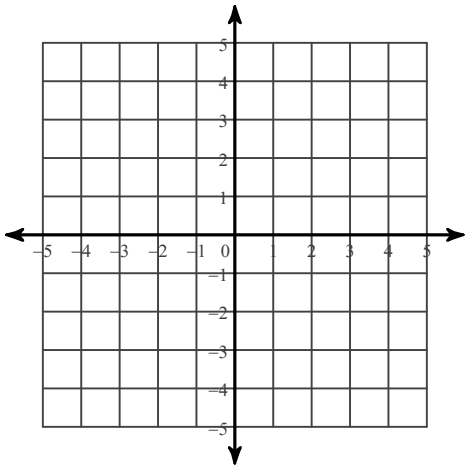


14) $x - y = 2$

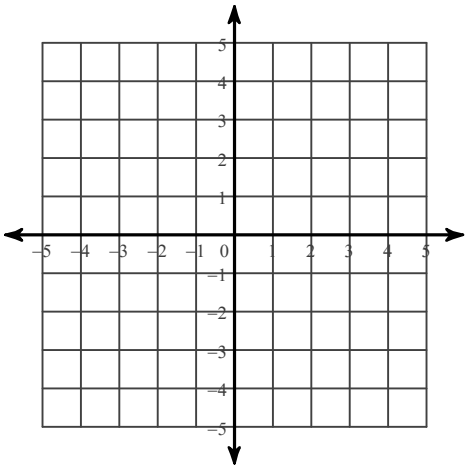
$x = -2$



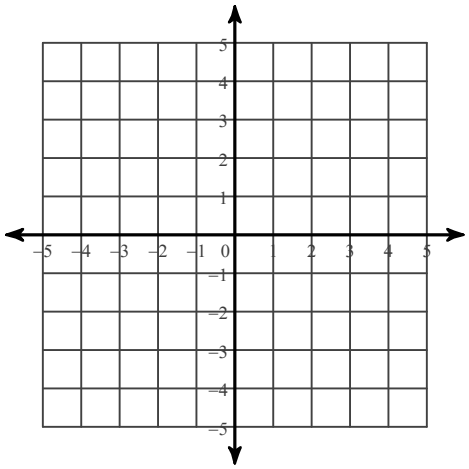
15) $2x + y = 1$
$2x - y = 3$



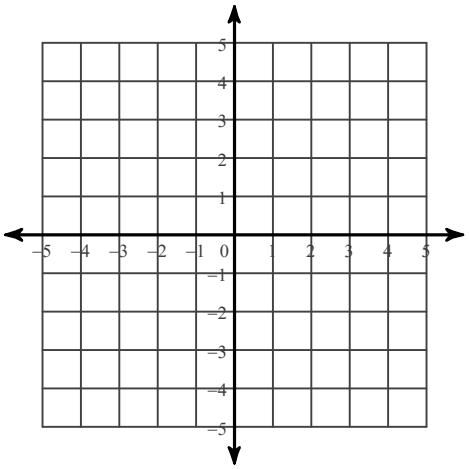
16) $x - 3y = -6$
$2x - y = 3$



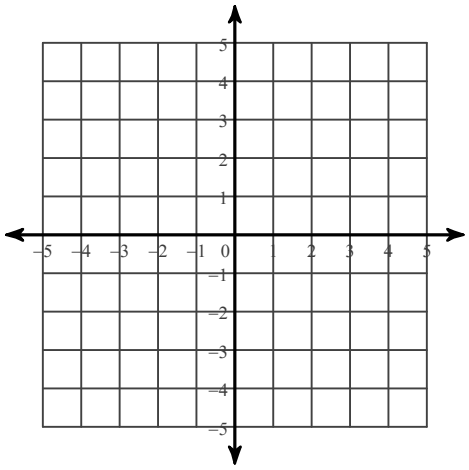
17) $x + 3y = -12$
$5x - 3y = -6$



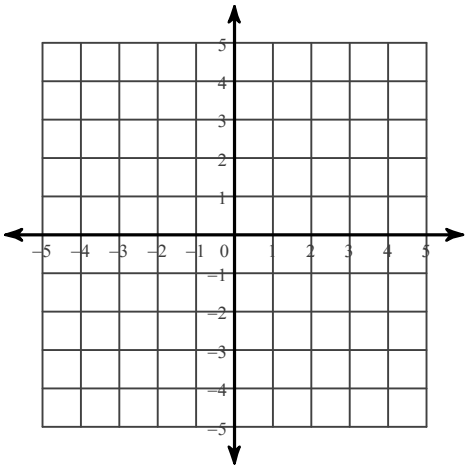
18) $2x + y = -4$
$x + 4y = 12$



19) $x + 2y = 8$
$x - 2y = -4$

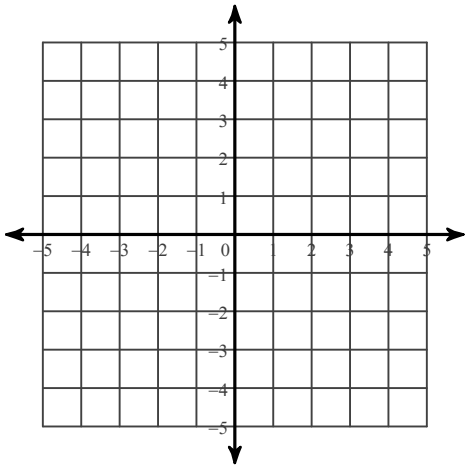


20) $2x + 3y = -12$
$5x - 3y = -9$

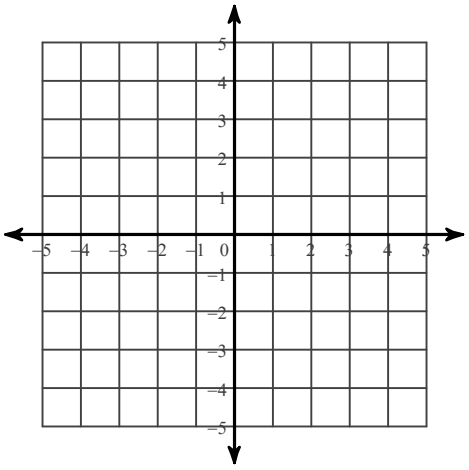


Solve each system by graphing (find the point of intersection of the two lines).

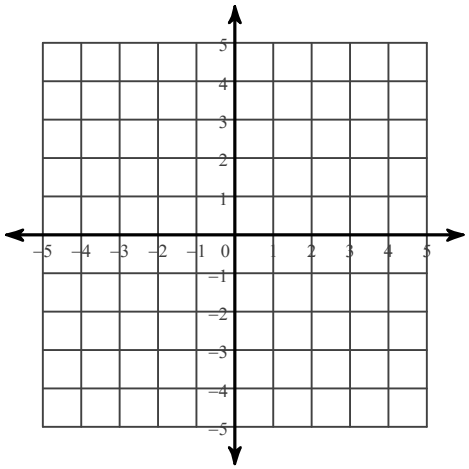
21) $-6x + y = 4$
$-y - 2x = 4$



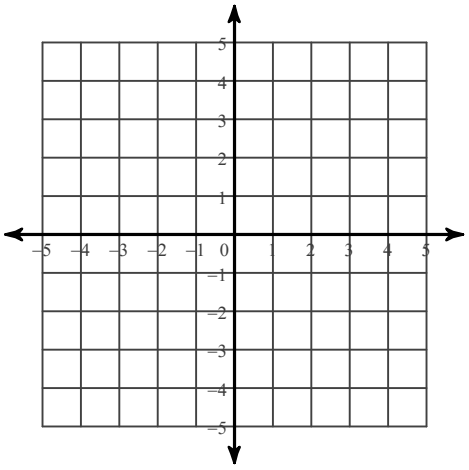
22) $-y - 3 + 4x = 0$
$-4 = -3x - y$



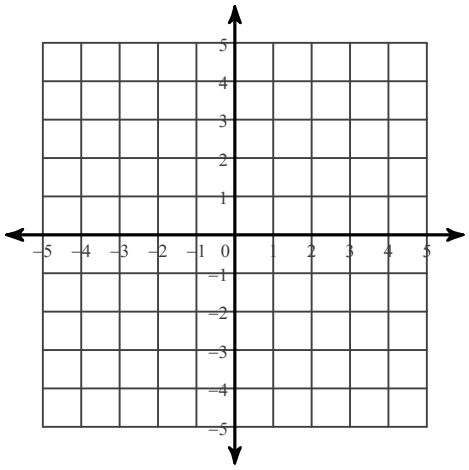
23) $0 = -3x - 4 - 2y$
$2 - \frac{1}{2}x = y$



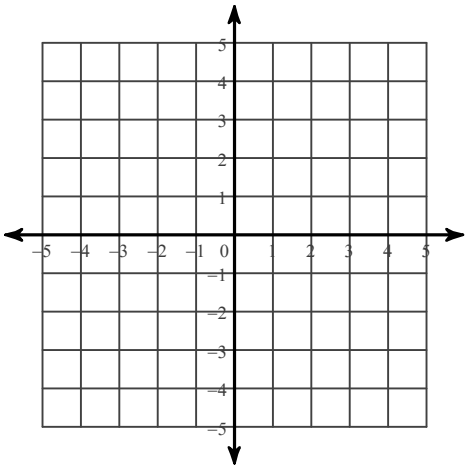
24) $-2x - y = 1$
$-6x = 3y + 3$



25) $x - 2y + 8 = 0$
$-6 - 2y = -x$

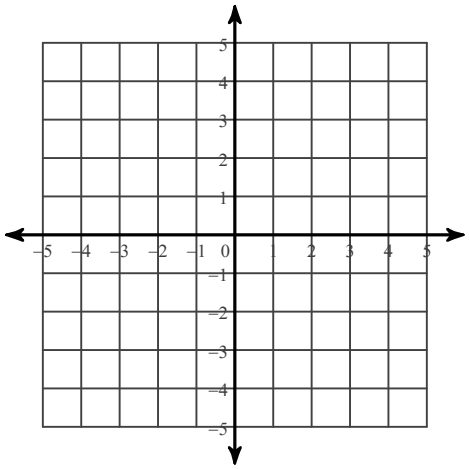


26) $-2y - 5x = 2$
$-5x = 2y - 4$



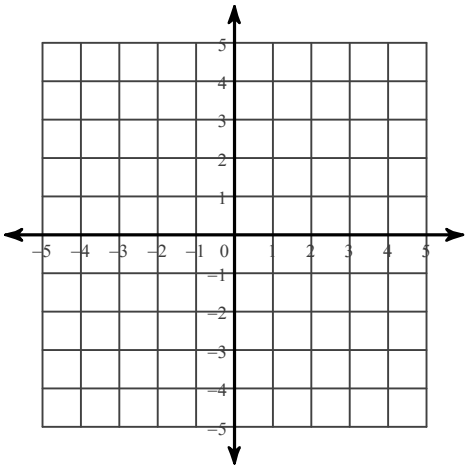
27) $2y + x - 4 = 0$

$2y = -x + 4$



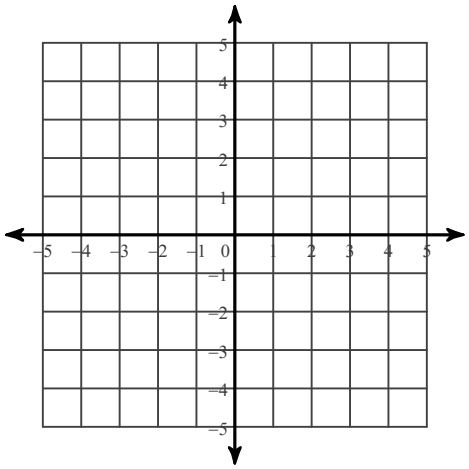
28) $-4 = -2y$

$4 + 6x = -y$



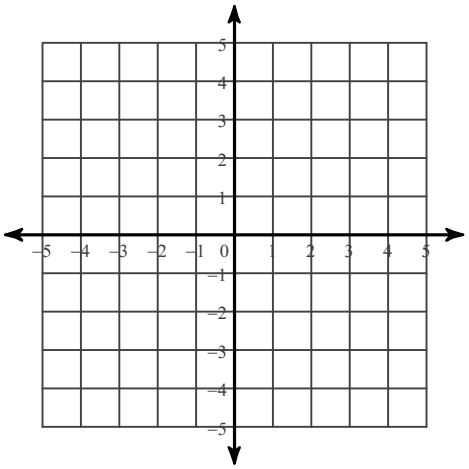
29) $-2x = -8 - 2y$

$-2y - 8 = -2x$



30) $2y + 4 + 3x = 0$

$-2y = 8 + 3x$



Answers to Solving Systems of Equations by Graphing

1) $(1, -1)$
2) $(3, -4)$
3) $(3, -2)$
4) $(-1, -3)$
5) $(-3, 3)$
6) $(-4, 4)$
7) $(3, 1)$
8) $(-1, -2)$
9) $(2, 1)$
10) $(4, 4)$
11) $(1, -1)$
12) $(4, 2)$
13) $(-1, 4)$
14) $(-2, -4)$
15) $(1, -1)$
16) $(3, 3)$
17) $(-3, -3)$
18) $(-4, 4)$
19) $(2, 3)$
20) $(-3, -2)$
21) $(-1, -2)$
22) $(1, 1)$
23) $(-4, 4)$
24) Infinite number of solutions
25) No solution
26) No solution
27) Infinite number of solutions
28) $(-1, 2)$
29) Infinite number of solutions
30) No solution