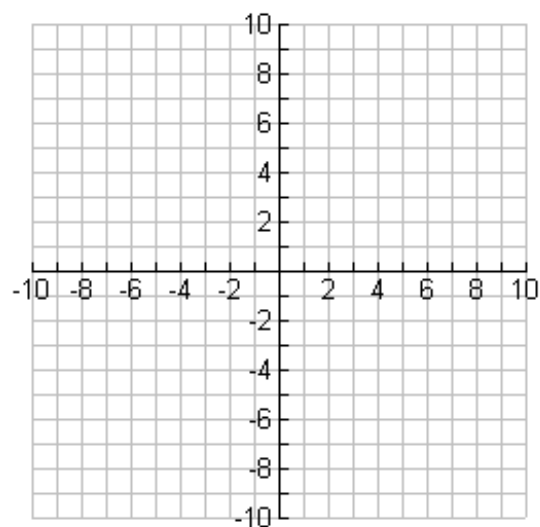
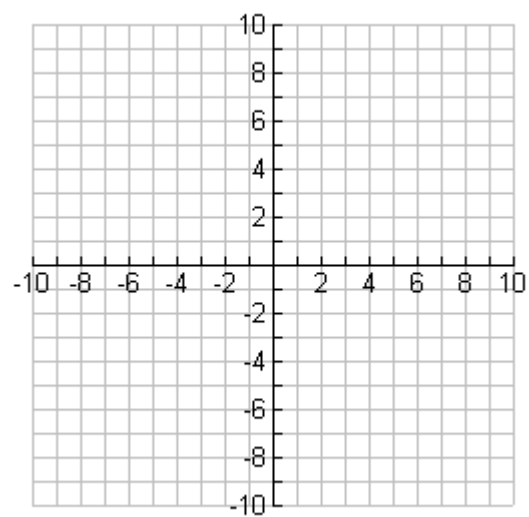


Graph the following Linear Equations

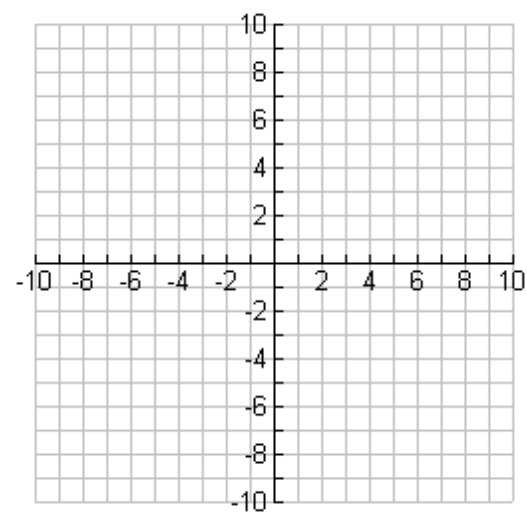
1) $y = \frac{2}{3}x - 4$



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

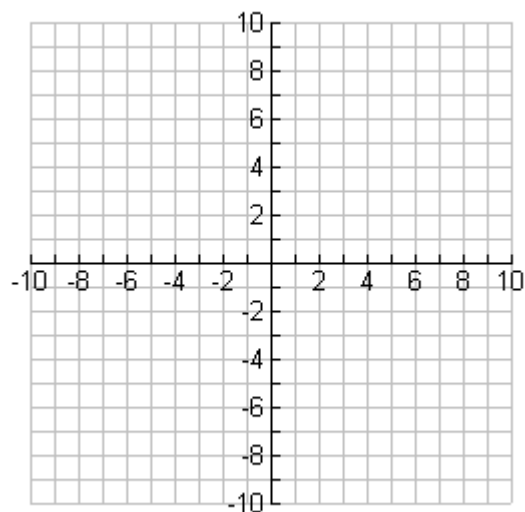


3) $3x + 4y = 12$



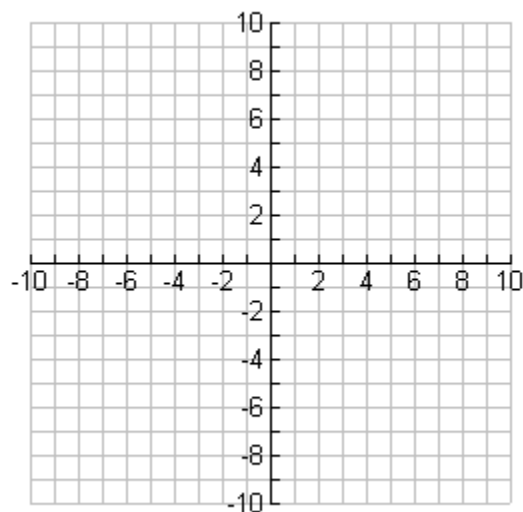
Solving Systems of Equations by Graphing (graph BOTH equations on the same grid)

4) $2x - y = 3$
 $x + y = 3$



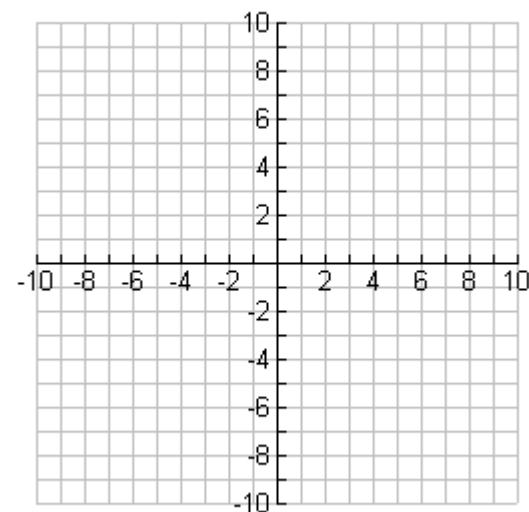
Where do the lines intersect?

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



Where do the lines intersect?

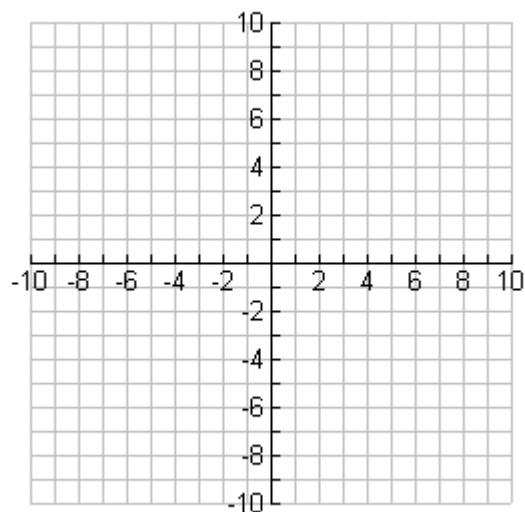
6) $x + 2y = 6$
 $y = -\frac{1}{2}x + 3$



Where do the lines intersect?

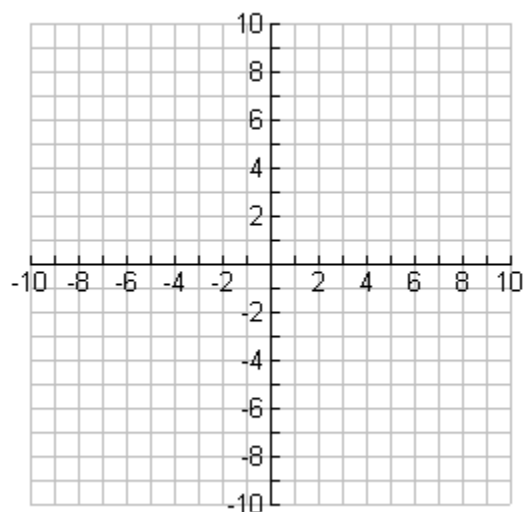
Solving Systems of Equations by Graphing (graph both equations on the same grid)

7)
$$\begin{aligned} -8x - 8y &= 8 \\ 3x + y &= 9 \end{aligned}$$



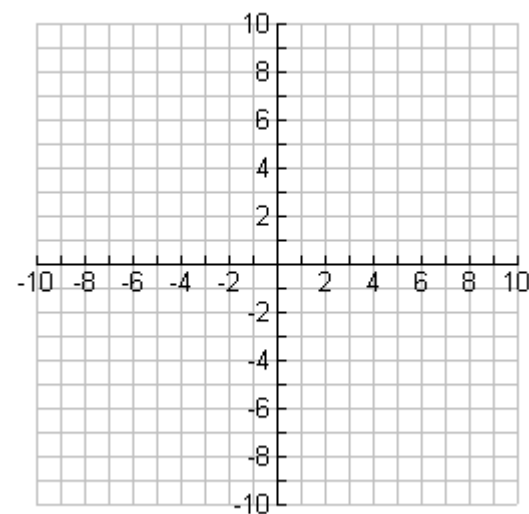
Where do the lines intersect?

8)
$$\begin{aligned} y &= 2x - 1 \\ -2x + y &= 6 \end{aligned}$$



Where do the lines intersect?

9)
$$\begin{aligned} y &= -2x - 6 \\ 4x + 2y &= -12 \end{aligned}$$



Where do the lines intersect?

10) In question numbers 4 and 7 how many time did the lines intersect?

11) In questions number 5 and 8 how many times did the lines intersect?

12) In questions number 6 and 9 how many times did the lines intersect?

13) Questions (4 and 7), (5 and 8) and (6 and 9) all have a specific number of solutions. When there are 2 graphs there are either **no solutions**, **infinite solutions** or **one solution**. Using what you answered in numbers 10-12, try and match the graphs to the number of solutions they have,

4 and 7 _____

A. No Solutions

5 and 8 _____

B. Infinite Solutions

6 and 9 _____

C. One Solution