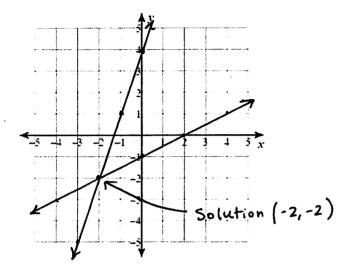
Systems of Linear Equations

Solve the system by graphing.

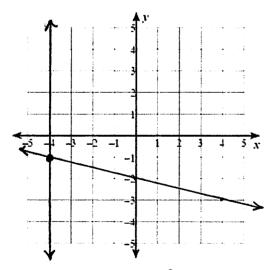
1)
$$y = 3x + 4$$

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



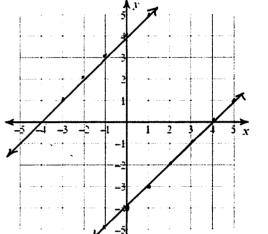
3)
$$y = -\frac{1}{4}x - 2$$

 $x = -4$



2)
$$y = x - 4$$

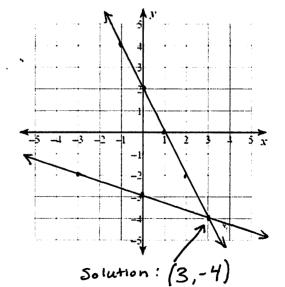
 $y = x + 4$



No solution, parallel liner never intersect

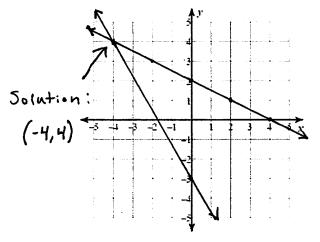
4)
$$y = -2x + 2$$

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



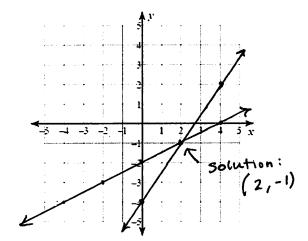
$$5) \ \ y = -\frac{1}{2}x + 2$$

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



6)
$$y = \frac{3}{2}x - 4$$

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



7) Juan and his friends are going to an amusement park and discover that they have two ticket options.

Option A has you buy an admission ticket for \$5 and then pay \$0.25 for each ride.

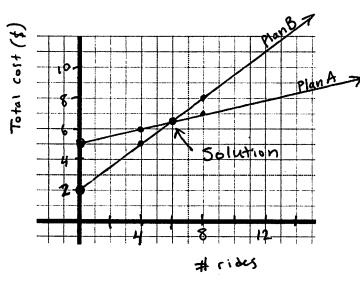
Ret y = total cost X = total rides vidden

Option B has you buy an admission ticket for \$2 and then pay \$0.75 per ride.

a) Write a linear equation for Option A.

b) Write a linear equation for Option B.

c) Graph both equations on the graph below to see when both options are equal.



Both plans cost \$6.50 at 6 rides. Juan and friends should choose option A if they plan to tide more than 6 rides.