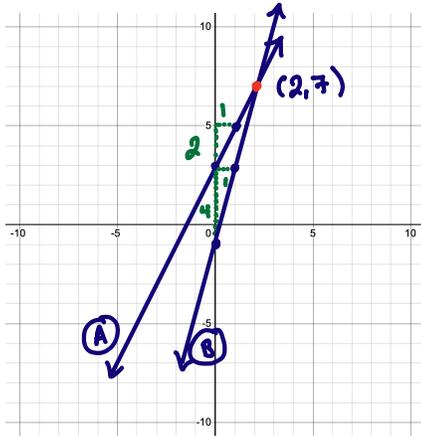


Solving Systems of Linear Equations by Graphing

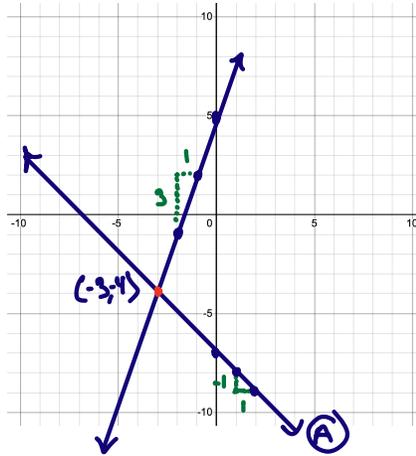
1. Solve each system of linear equations by graphing.

a) $y = 2x + 3$ (A)
 $y = 4x - 1$ (B)



Solution? yes, (2, 7)

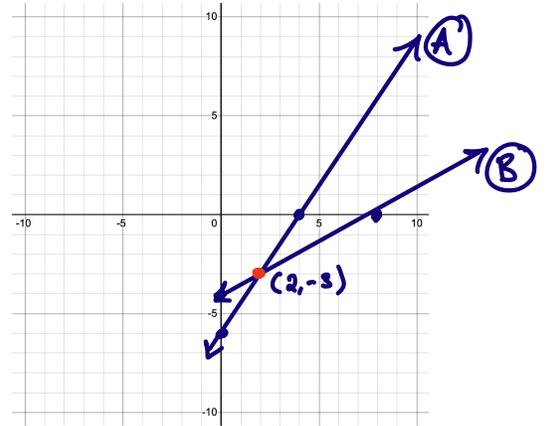
b) $y = -x - 7$ (A)
 $y = 3x + 5$ (B)



Solution? yes, (-3, -4)

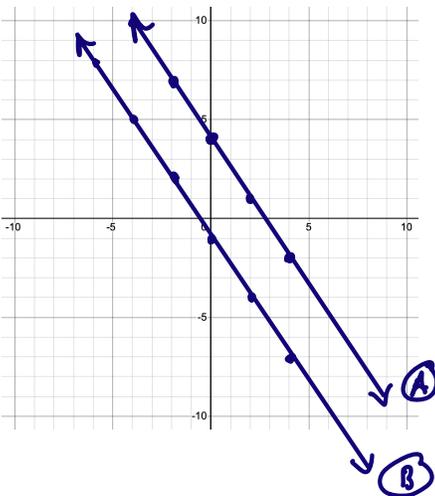
c) $3x - 2y = 12$ (A)
 $2y - x = -8$ (B)

graph using intercepts



Solution? yes, (2, -3)

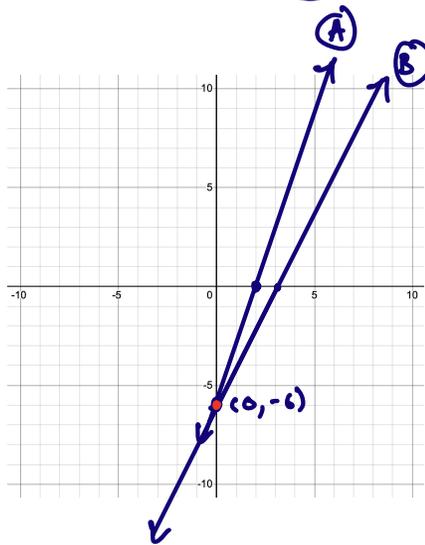
d) $y = -\frac{3}{2}x + 4$ (A)
 $y = -\frac{6}{4}x - 1$ (B)



Solution? no, lines are parallel

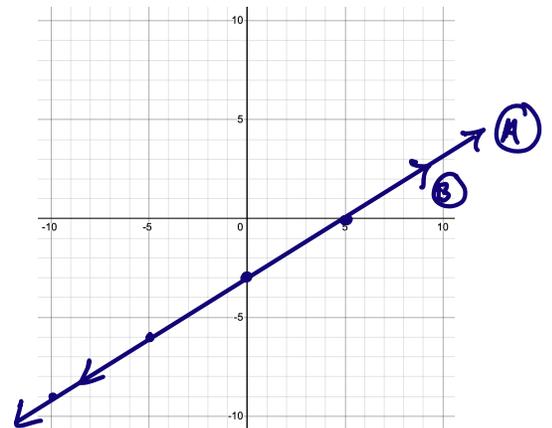
(same slope, different intercepts)

e) $6x - 2y = 12$ (A)
 $8x - 4y = 24$ (B)



Solution? yes, (0, -6)

f) $6x - 10y = 30$ (A)
 $y = \frac{3}{5}x - 3$ (B)



Solution? yes, infinitely many solutions

(same slope, same y-intercept)