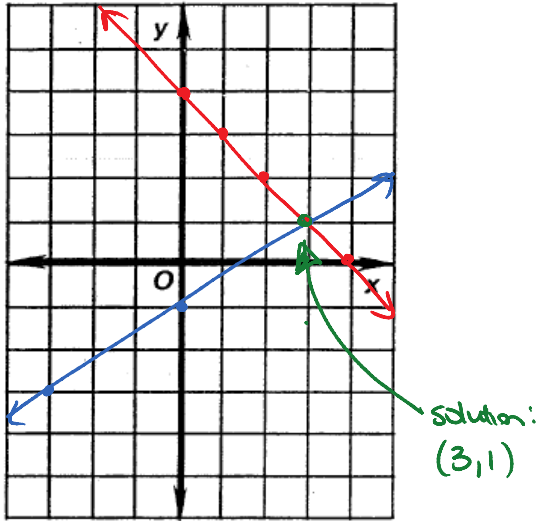


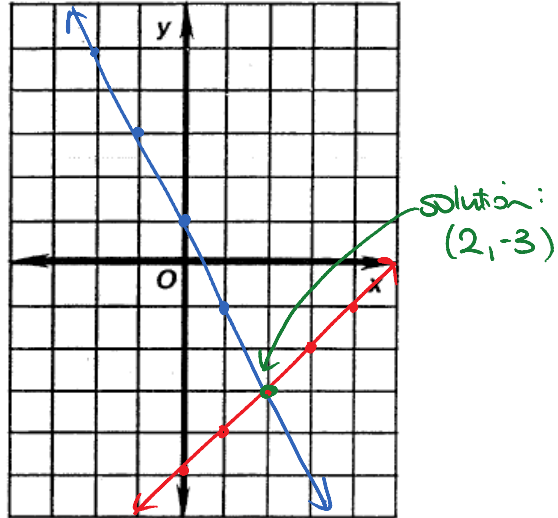
WS - Solving Systems by Graphing

Monday, January 07, 2013
7:34 AM

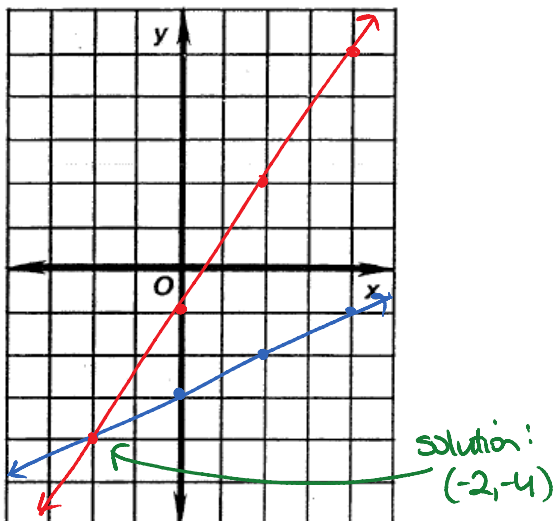
① $y = \frac{2}{3}x - 1$ y -int = -1, slope = $\frac{2}{3}$
 $y = -x + 4$ y -int = 4, slope = -1



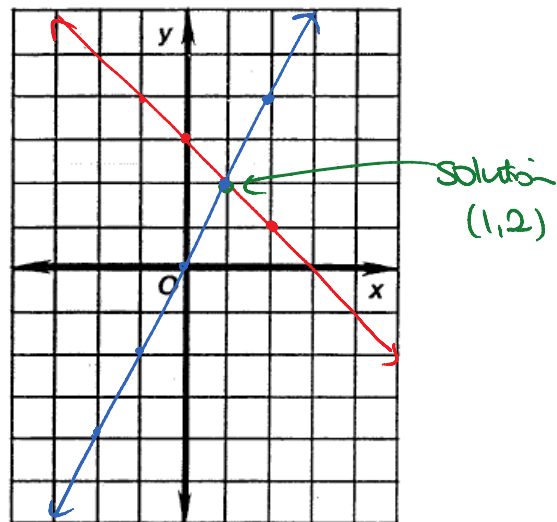
② $y = -2x + 1$ y -int = 1, slope = -2
 $y = x - 5$ y -int = -5, slope = 1



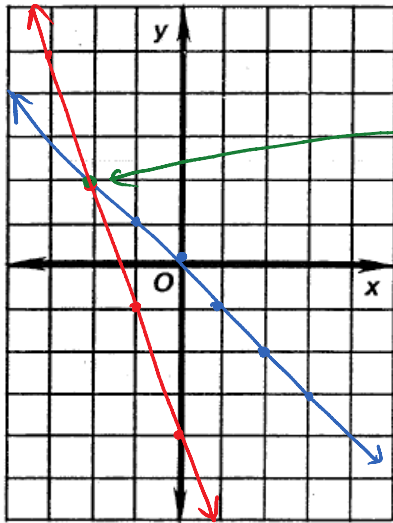
③ $y = \frac{1}{2}x - 3$ y -int = -3, slope = $\frac{1}{2}$
 $y = \frac{3}{2}x - 1$ y -int = -1, slope = $\frac{3}{2}$



④ $y = 2x$ y -int = 0, slope = 2
 $x + y = 3$
 $y = -x + 3$ y -int = 3, slope = -1

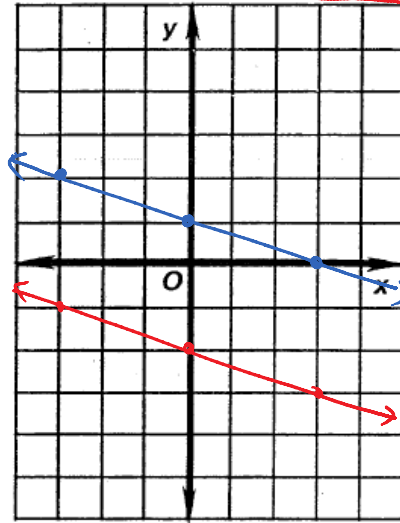


⑤ $x + y = 0 \rightarrow y = -x$ $y\text{-int} = 0, \text{slope} = -1$
 $3x + y = -4 \rightarrow y = -3x - 4$ $y\text{-int} = -4, \text{slope} = -3$



Solution:
 $(-2, 2)$

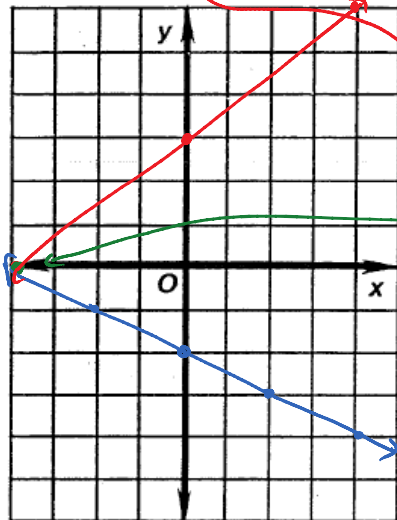
⑥ $x = 3 - 3y \rightarrow -3y = x - 3$ $y\text{-int} = 1, \text{slope} = -\frac{1}{3}$
 $x + 3y = -6 \rightarrow y = -\frac{1}{3}x - 2$



$3y = -x - 6$
 $y = -\frac{1}{3}x - 2$
 $y\text{-int} = -2$
 $\text{slope} = -\frac{1}{3}$

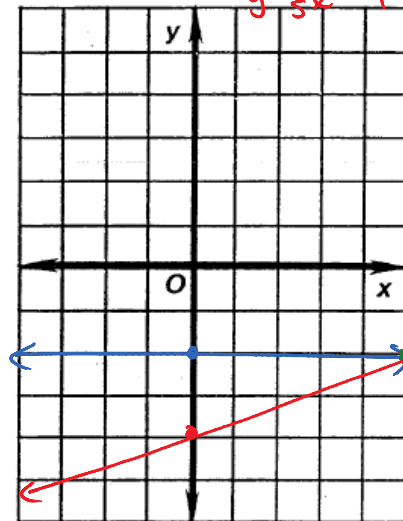
lines don't intersect, so
no solution

⑦ $x + 2y = -4 \rightarrow 2y = -x - 4$ $y\text{-int} = -2, \text{slope} = -\frac{1}{2}$
 $4y = 3x + 12 \rightarrow y = \frac{3}{4}x + 3$



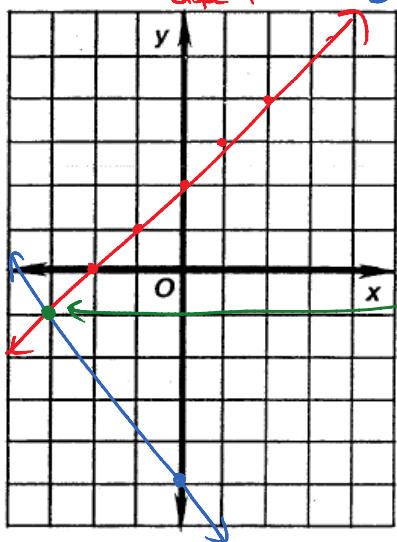
Solution:
 $(-4, 0)$

⑧ $y = -2 \rightarrow$ horizontal line
 $2x - 5y = 20 \rightarrow -5y = -2x + 20$ $y\text{-int} = -4, \text{slope} = \frac{2}{5}$
 $y = \frac{2}{5}x - 4$



Solution:
 $(5, -2)$

⑨ $4x + 3y = -15 \rightarrow 3y = -4x - 15$
 $y = x + 2$ $y\text{-int} = 2$ $\text{slope} = 1$ $y = -\frac{4}{3}x - 5$ $y\text{-int} = -5$ $\text{slope} = -\frac{4}{3}$



Solution:
 $(-3, -1)$