

# Linear Systems?

Ex 1.

$$x + 2y = 10 \quad \begin{matrix} \text{Yes!} \\ \text{degree 1} \end{matrix}$$

$$\frac{2y}{2} = \frac{-x}{2} + \frac{10}{2} \quad \checkmark y = mx + b$$

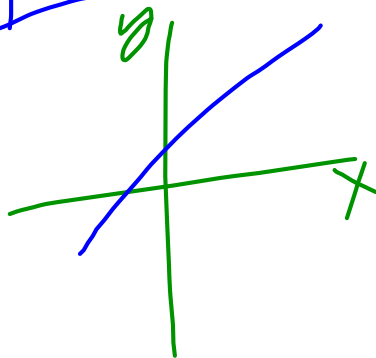
$$y = -\frac{1}{2}x + 5$$

TOV

x	y
-2	2
0	5
2	4

↘ diff are constant

↘ a line

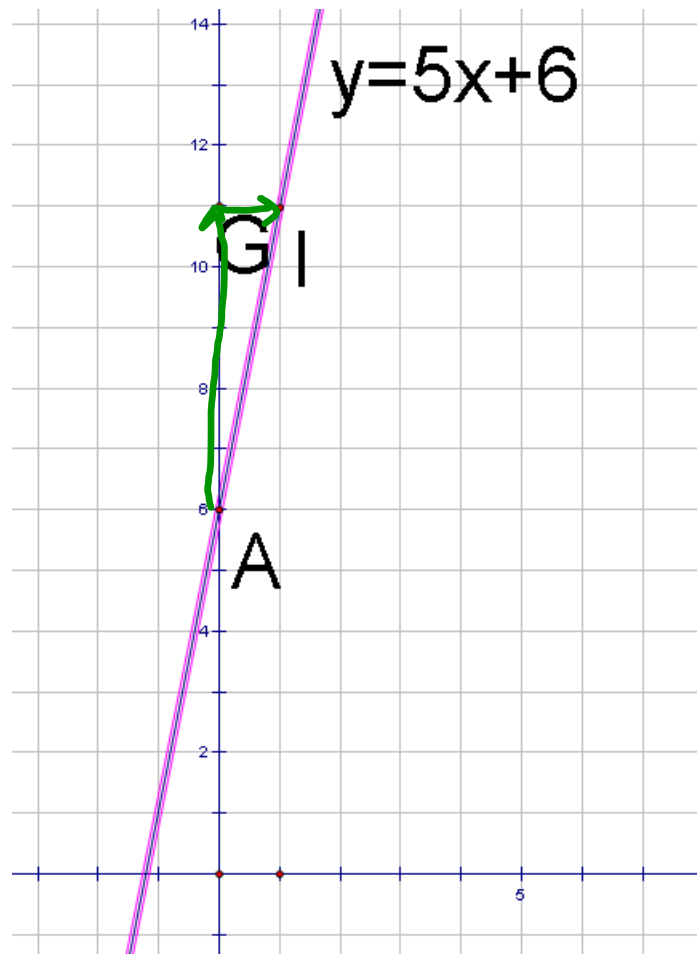


STA form

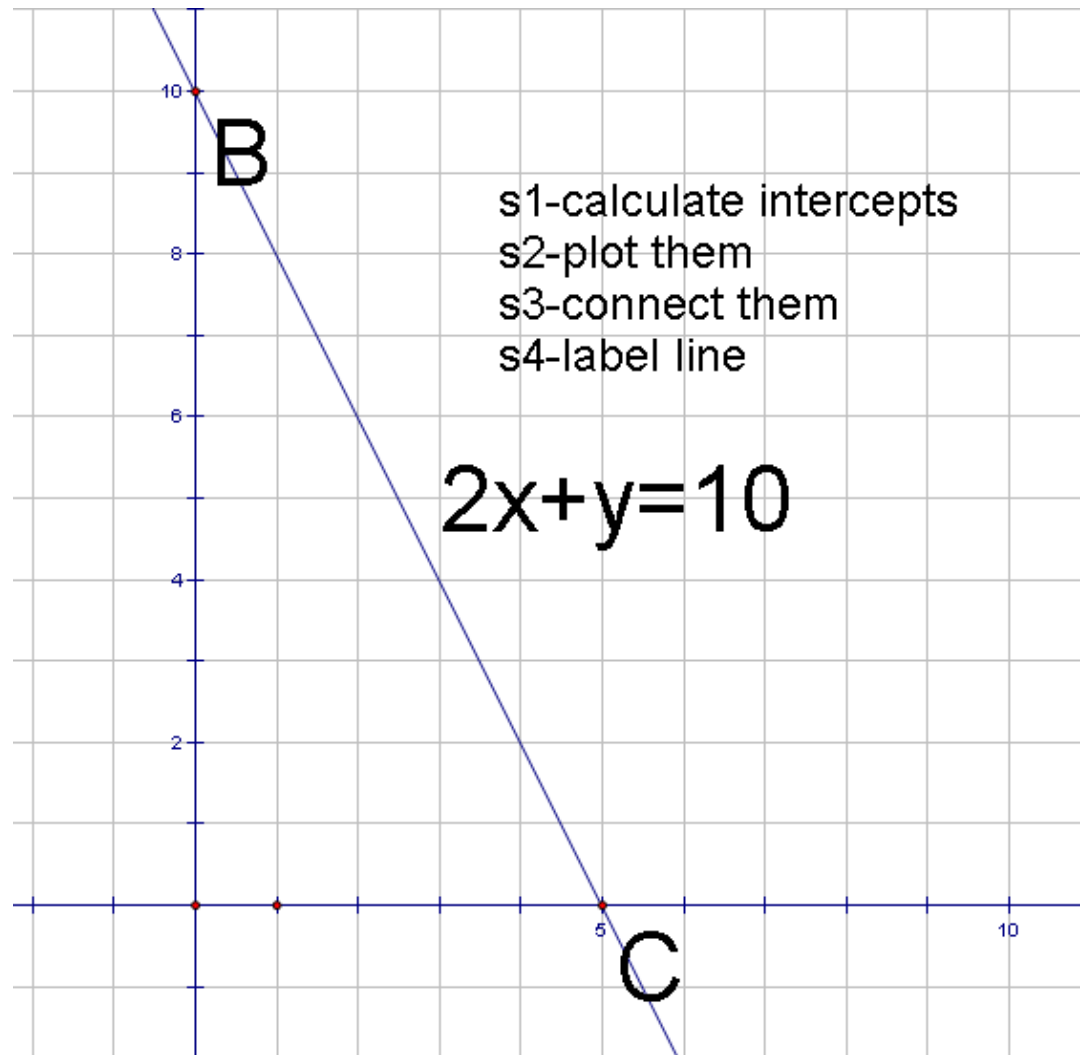
$$ax + by + c = 0$$



(+)  
not a function



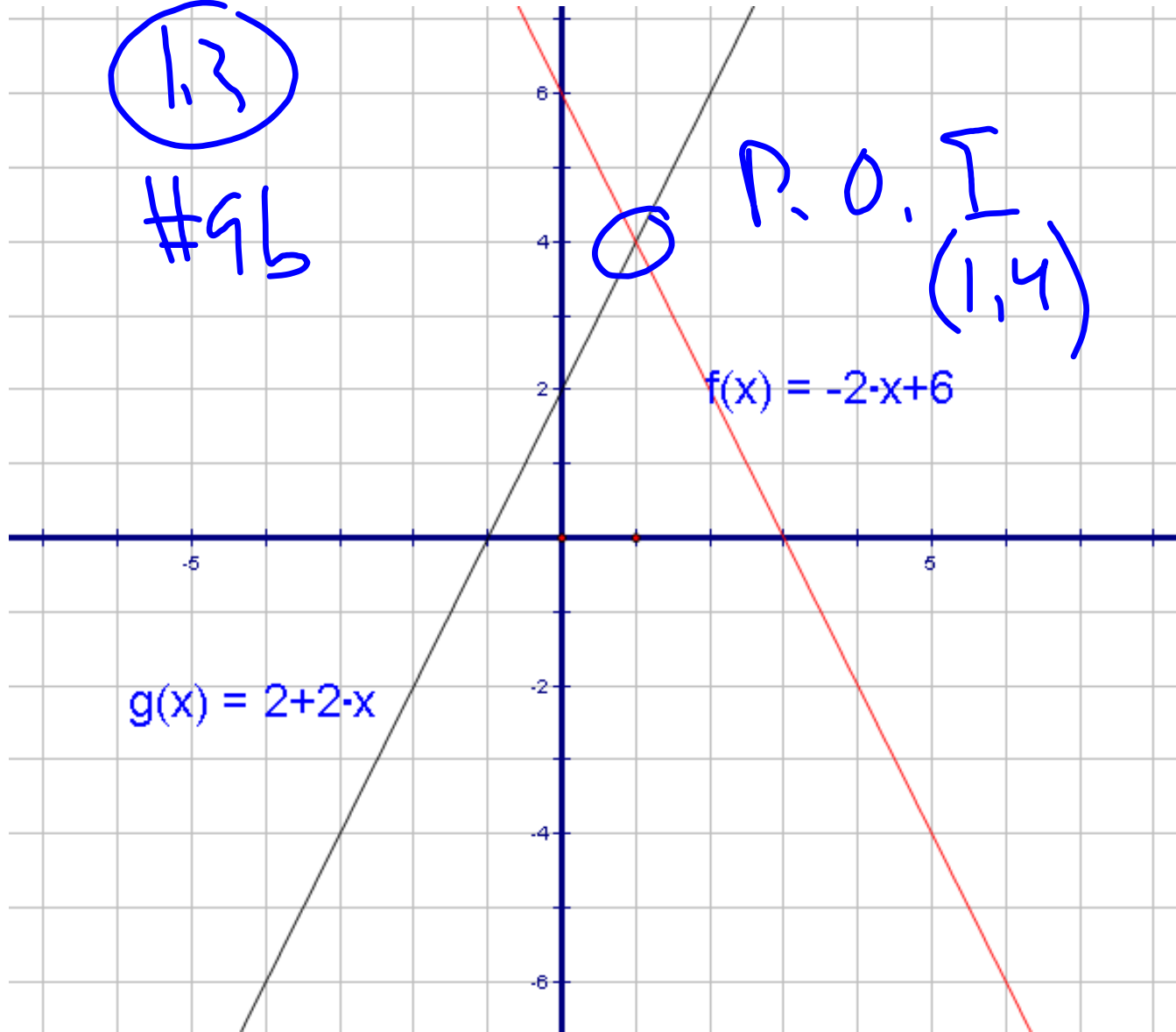
- S1 - plot "L"
- S2 - followed slope
- S3 - connect pts

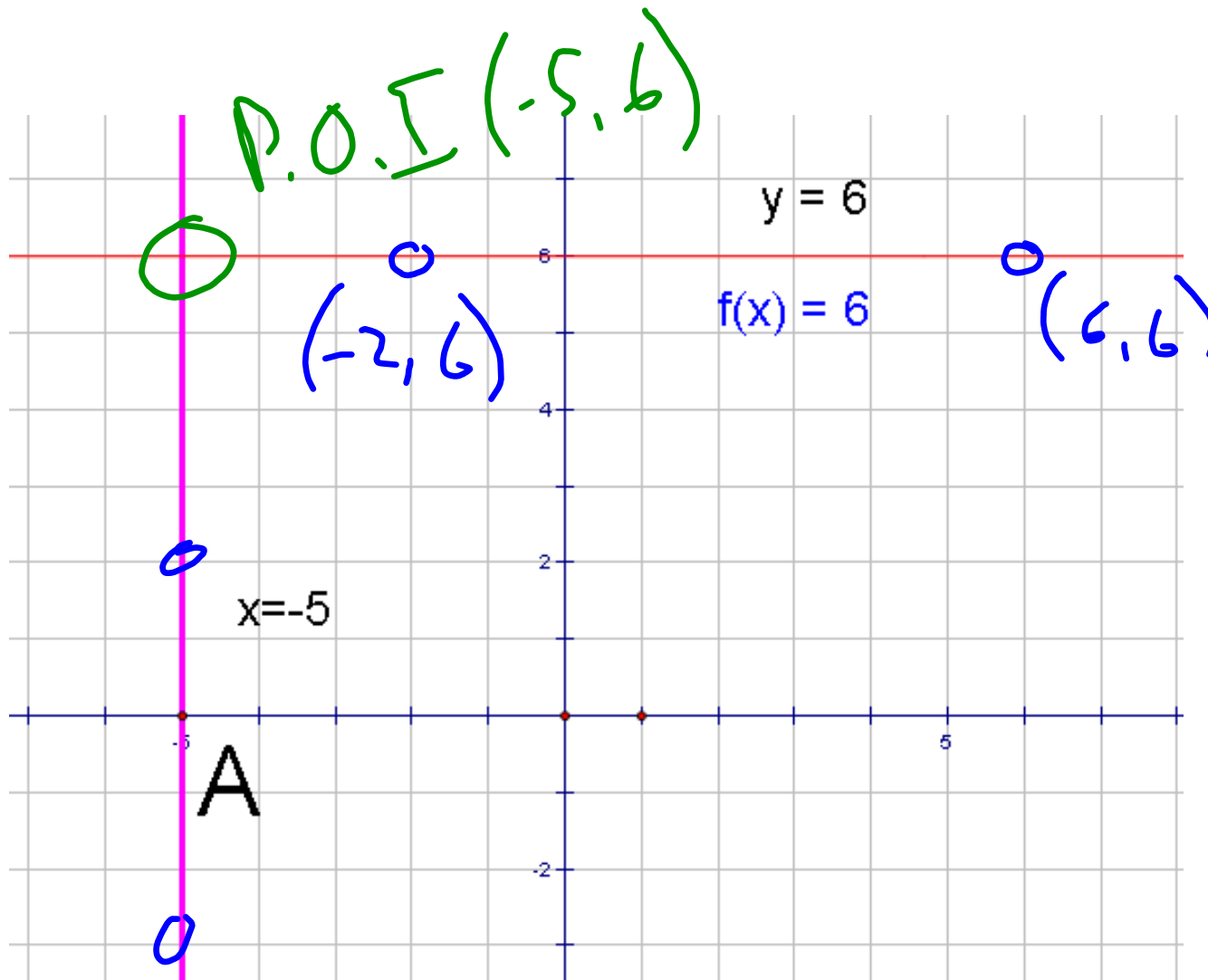


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#96

P.O.  $\left( \begin{array}{c} \lceil \\ (1,4) \end{array} \right)$





1.5 Investigating ways that  
two lines intersect

p67 key ideas

p69-73

q1-4,7abce, 8,10,12,17,18,20,24

p70 q3 geosketchpad due wednesday  
feb 14, 07 (6 marks app)

look ahead 1.8