

Ch 6.2 Slope Intercept Form

$$y = mx + b$$

m = slope b = y intercept

Ex1) Find the slope and y intercept given an equation.

a) $y = 2x + 1$ b) $y = \frac{3}{4}x - 5$

c) $y = 5$ d) $y + 2x = 4$

Try1) $y = -3x + 7$ Try 2) $x + y = 4$

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Ex 2) Graph using slope intercept:

Steps: 1. Write in $y = mx + b$

2. Pick off b and *plot* the point on the *y-axis*

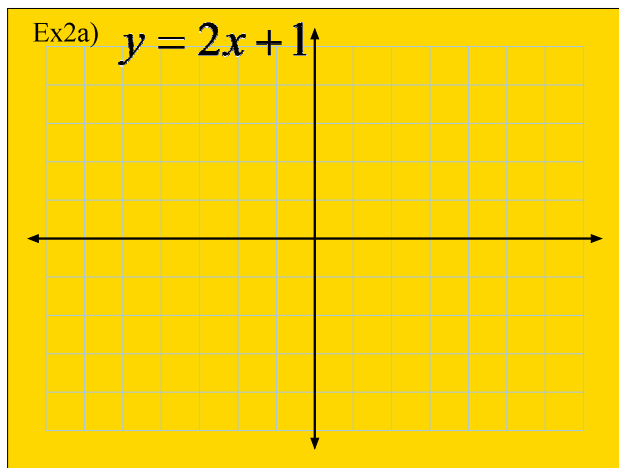
3. Pick off m and make it a fraction: *rise*
run

rise + $\uparrow$, - $\downarrow$ run + $\rightarrow$, - $\leftarrow$

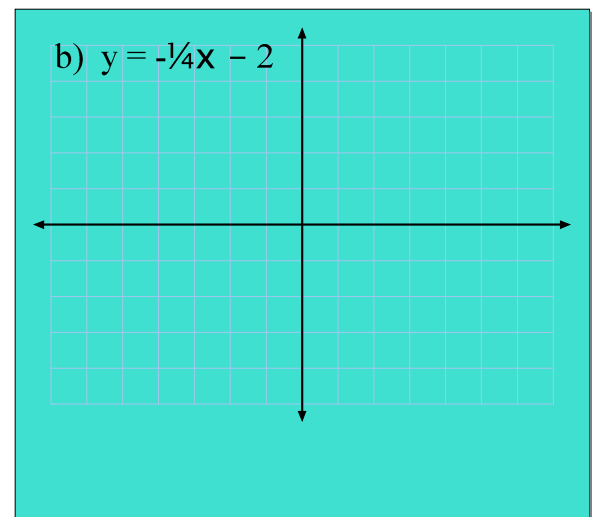
Then plot the second point.

4. Connect the dots and *make a line*.

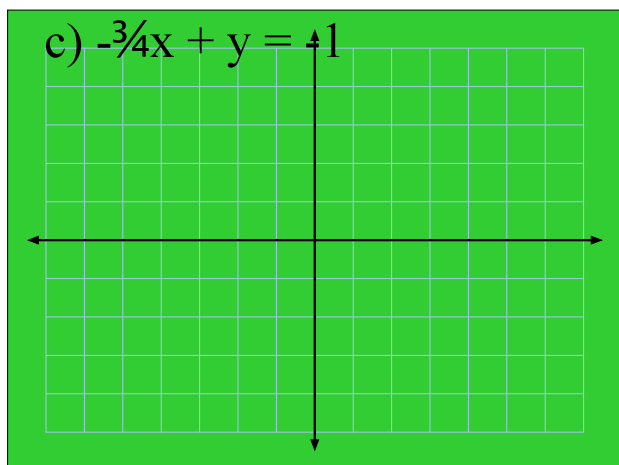
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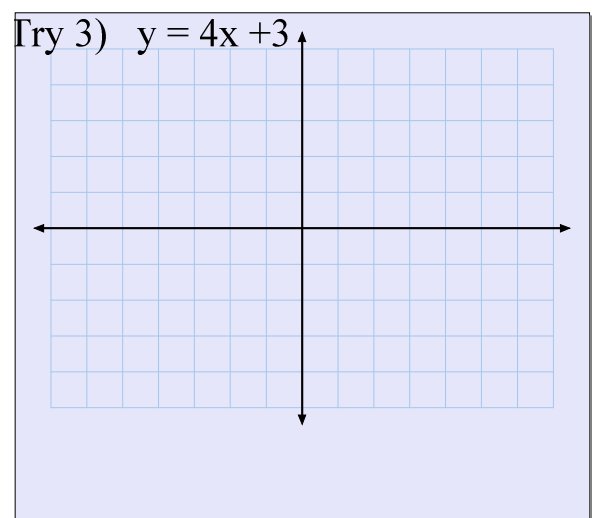
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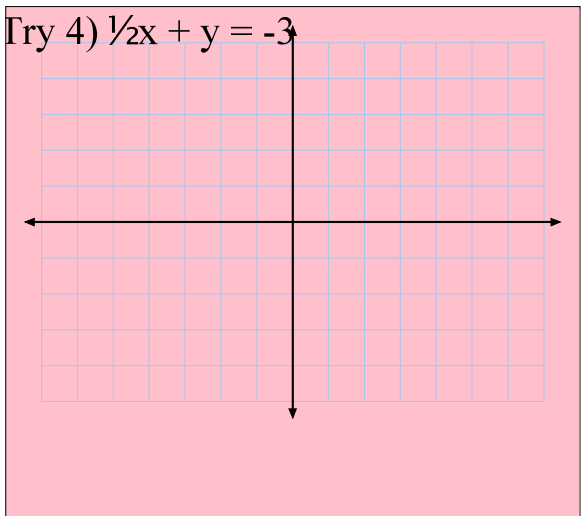


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Try 4) $\frac{1}{2}x + y = -3$



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