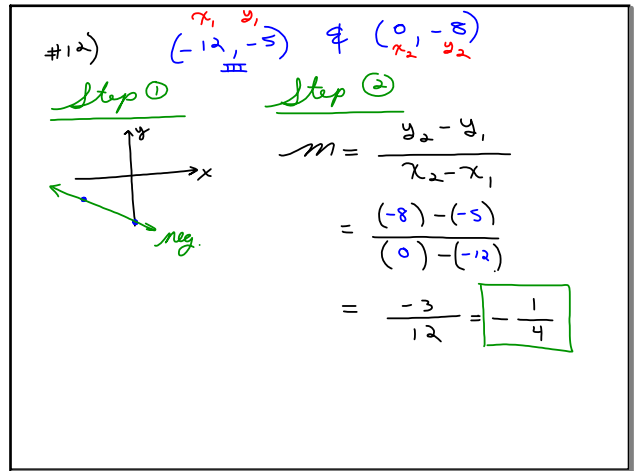
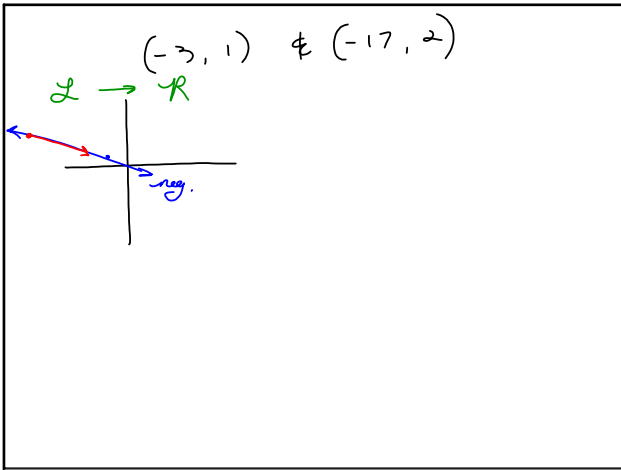


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Equations of Lines

① Standard Form
 $Ax + By = C$
 • where $A, B, C \in \mathbb{Z}$

② Slope-Intercept Form
 $y = mx + b$

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$$Ax + By = C; \text{ for } y$$

$$\frac{By}{B} = \frac{C - Ax}{B}$$

$$y = \frac{C - Ax}{B}$$

$$y = -\frac{A}{B}x + \frac{C}{B}$$

$y = m x + b$
 slope $(0, b)$

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#17) $y = \underbrace{-5}_m x + \underbrace{-1}_b$

$m = -\frac{5}{1}; (0, -1)$

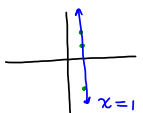
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#20) $\boxed{x} = 1$ $ax + by = c$
slope: undefined

$$x + 0 \cdot y = 1$$

$$\frac{0 \cdot y}{0} = \frac{-x}{0} + \frac{1}{0}$$

x	y
-	2
-	-5
-	3



** Vertical lines have an undefined slope.*

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