

sign is negative.
leading coefficient

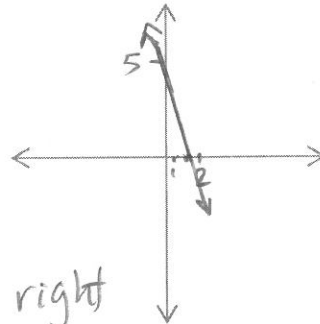
Example 1: Analyzing Linear Functions

Enter the equation into your calculator: $y = -3x + 5$

Draw a sketch of the function. Label at least two points on the graph.

$$y = ax + b$$

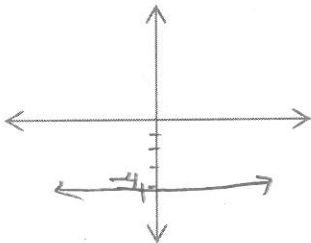
\uparrow leading coefficient
 \uparrow y-intercept



Slope Direction	Decreases on the right
Sign of Leading Coefficient	negative
End Behaviour	Q II to Q IV
Domain	$\{x/x \in \mathbb{R}\}$
Range	$\{y/y \in \mathbb{R}\}$

Example 2

a) Draw a sketch of the function $y = -4$



- b) Describe the end behavior and the slope. ① Q III to Q IV
 ② Slope is horizontal
- c) This equation has a leading co-efficient of 0. Explain why.

Be cause the slope is '0'.