

Using Desmos to Explore Graphs

Graph the Equations on the same Grid	Observations
$y = 3x$	
$y = 10x$	
$y = \frac{1}{8}x$	
Compare the Three Graphs	

Graph the Equations on the same Grid	Observations
$y = x$	
$y = x + 5$	
$y = x - 7$	
Compare the Three Graphs	

Graph the Equations on the same Grid	Observations
$y = 3x + 4$	
$y = -3x + 4$	
$y = 3x - 4$	
$y = -3x - 4$	
Compare the Three Graphs	

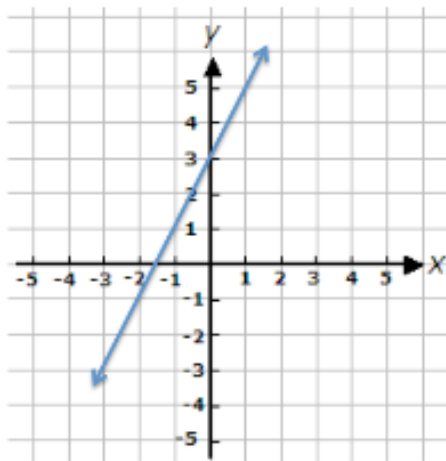
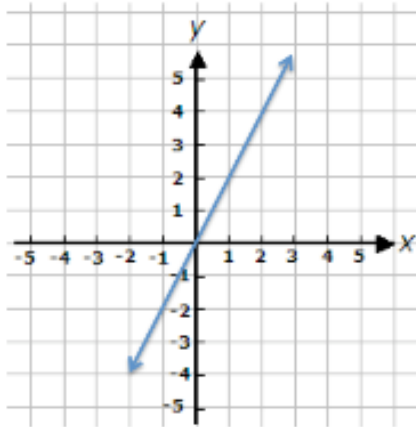
Compare the Equations Below	What are the Similarities and Differences? Steepness? Crosses the y-axis? Increase or Decreases from left to right?
$y = 3x + 5$	
$y = 8x + 5$	
$y = \frac{1}{8}x + 5$	

Compare the Equations Below	What are the Similarities and Differences? Steepness? Crosses the y-axis? Increase or Decreases from left to right?
$y = 3x - 4$	
$y = 3x$	
$y = 3x + 5$	

Compare the Equations Below	What are the Similarities and Differences? Steepness? Crosses the y-axis? Increase or Decreases from left to right?
$y = 2x + 6$	
$y = -2x + 6$	
$y = 2x - 6$	

Graph

Observations and Equations



Graph

Observations and Equations

