

# Using Desmos to Explore Graphs

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

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

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

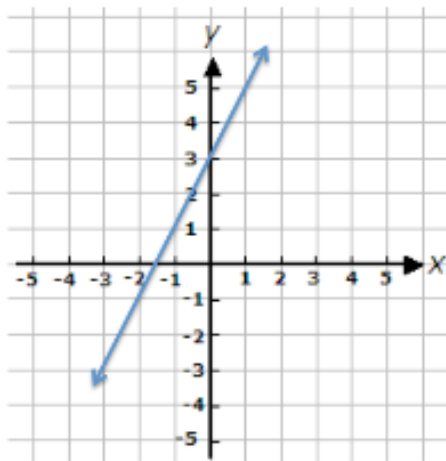
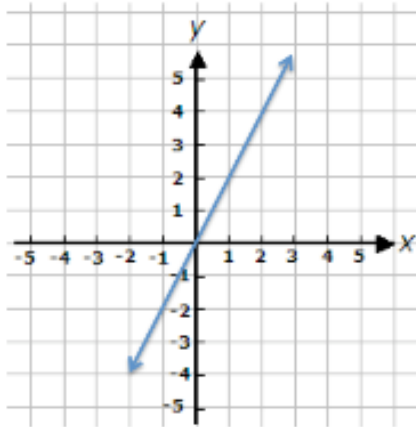
Compare the Equations Below	What are the Similarities and Differences? Steepness? Crosses the y-axis? Increase or Decreases from left to right?
$y = 3x + 5$	
$y = 8x + 5$	
$y = \frac{1}{8}x + 5$	

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**