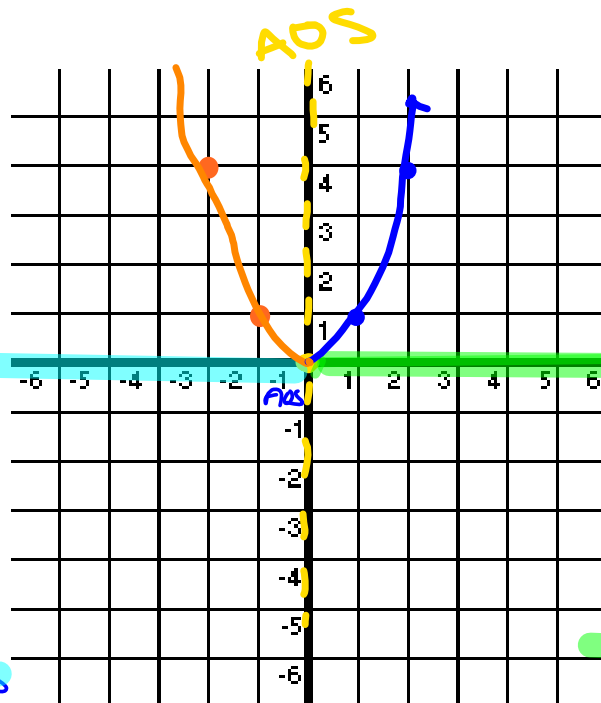


# Quadratics

# The Quadratic Parent Graph

$$y = x^2$$

x	y
-2	4
-1	1
0	0
1	1
2	4

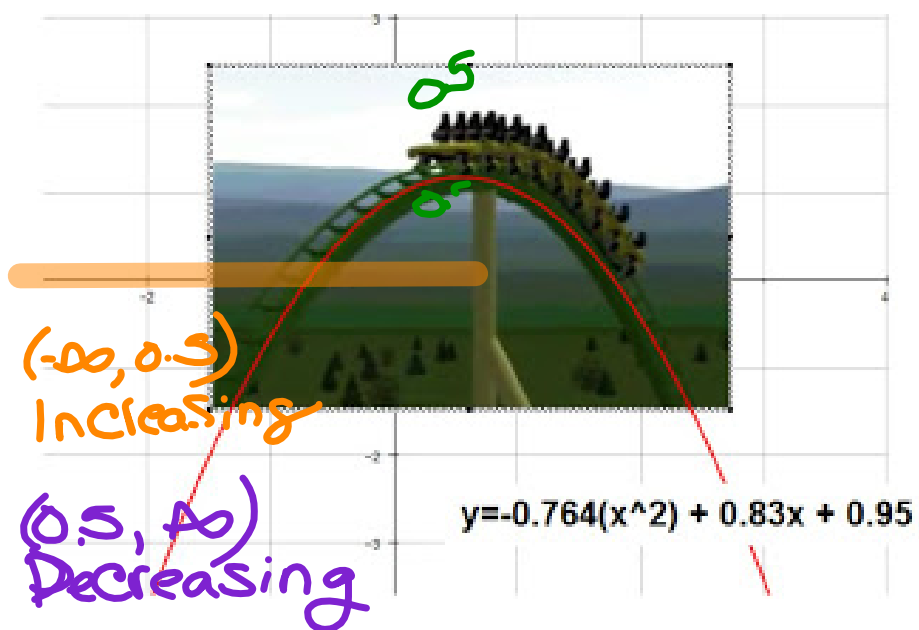


Drag points from here as needed

from  $-\infty$  to AOS

Decreasing  $(-\infty, 0)$

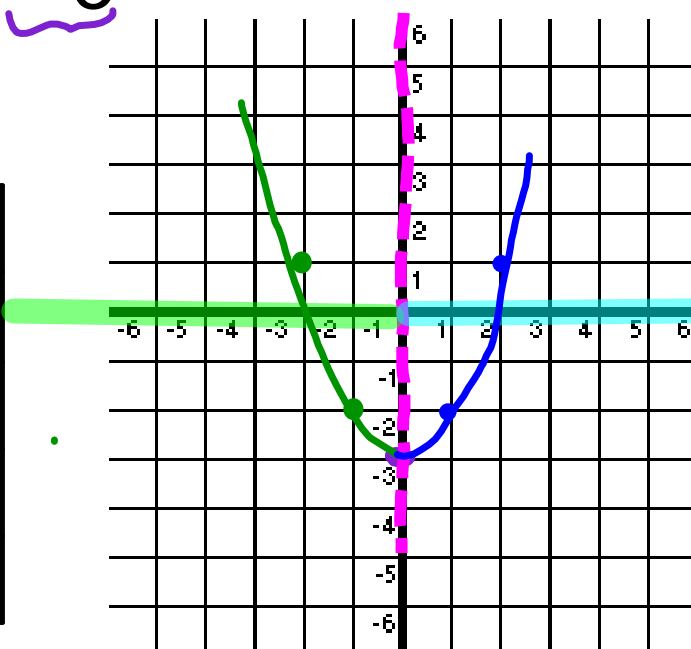
Increasing  $(0, \infty)$



Let's graph another

$$y = x^2 - 3$$

x	y
-2	1
-1	-2
0	-3
1	-2
2	1



Drag points from here as needed

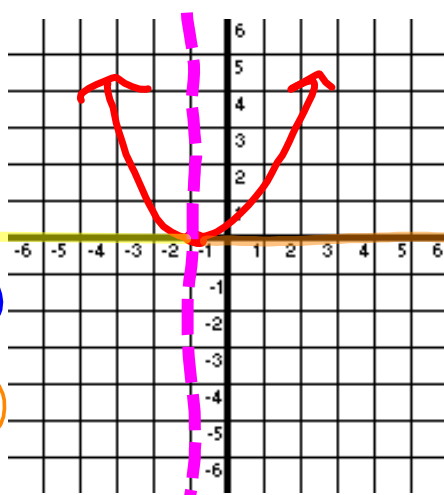
Dec.  
 $(-\infty, 0)$   
 Inc.  
 $(0, \infty)$

Let's graph another

$$y = (x+1)^2$$

x	y
-2	•
-1	•
0	•
1	•
2	•

Dec  
 $(-\infty, -1)$   
 Inc  
 $(-1, \infty)$



Drag points from here as needed