

Starter

23 JAN 2018

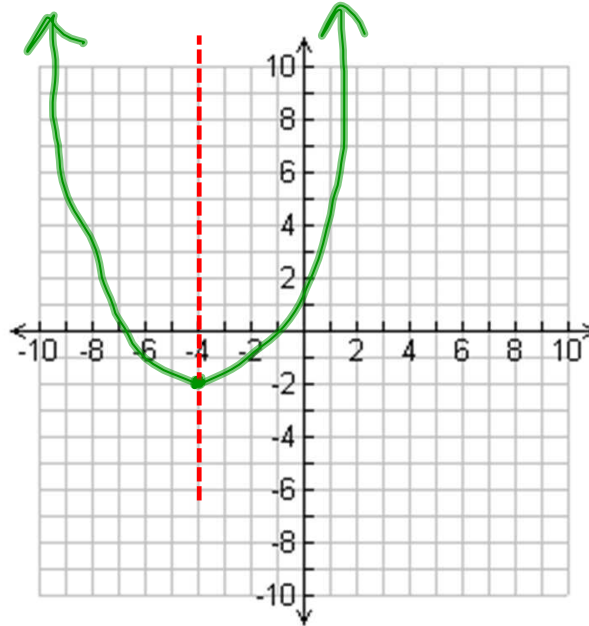
Identify the AOS, the vertex and state the domain and range.

AOS  $x = -4$

vertex  $(-4, -2)$

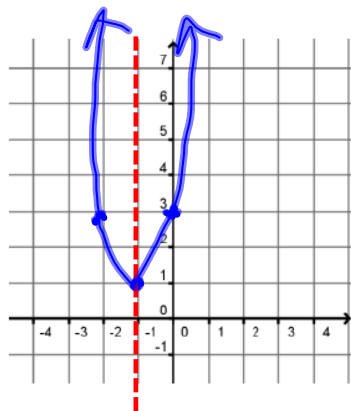
D:  $\mathbb{R}$

R:  $y \geq -2$



10]  $y = 2x^2 + 4x + 3$   
 $a = 2$   $b = 4$   $c = 3$   
 Opens up or down?  
 Is vertex a max or min?  $(0, 3)$   
 y-intercept:  
 Axis of Symmetry is  $x = -1$

Vertex:  $(-1, 1)$



Read your graph to find the coordinates of the points:

$(1, 9)$ ,  $(3, 33)$ , and  
 $(4, 51)$ .

table

2ND WINDOW  
 Indpt  
 ASK

Given:  $y = -x^2 + 4x + 5$

Axis of symmetry

X = \_\_\_\_\_

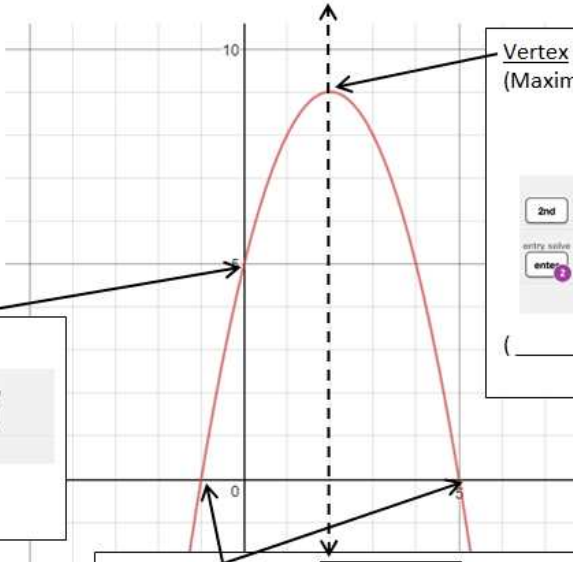
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

y-intercept

Calculator interface for y-intercept:  $x=1, y=0$

(0, \_\_\_\_\_)



**Vertex**  
(Maximum/Minimum points)

Left bound

Calculator interface for vertex:  $x=4, y=9$

Right bound

(\_\_\_\_\_, \_\_\_\_\_) Vertex

Zeros/x-intercepts

Left bound

Repeat for other zero

Calculator interface for zeros:  $x=2$

Right bound

(\_\_\_\_\_, 0) &  
(\_\_\_\_\_, 0)