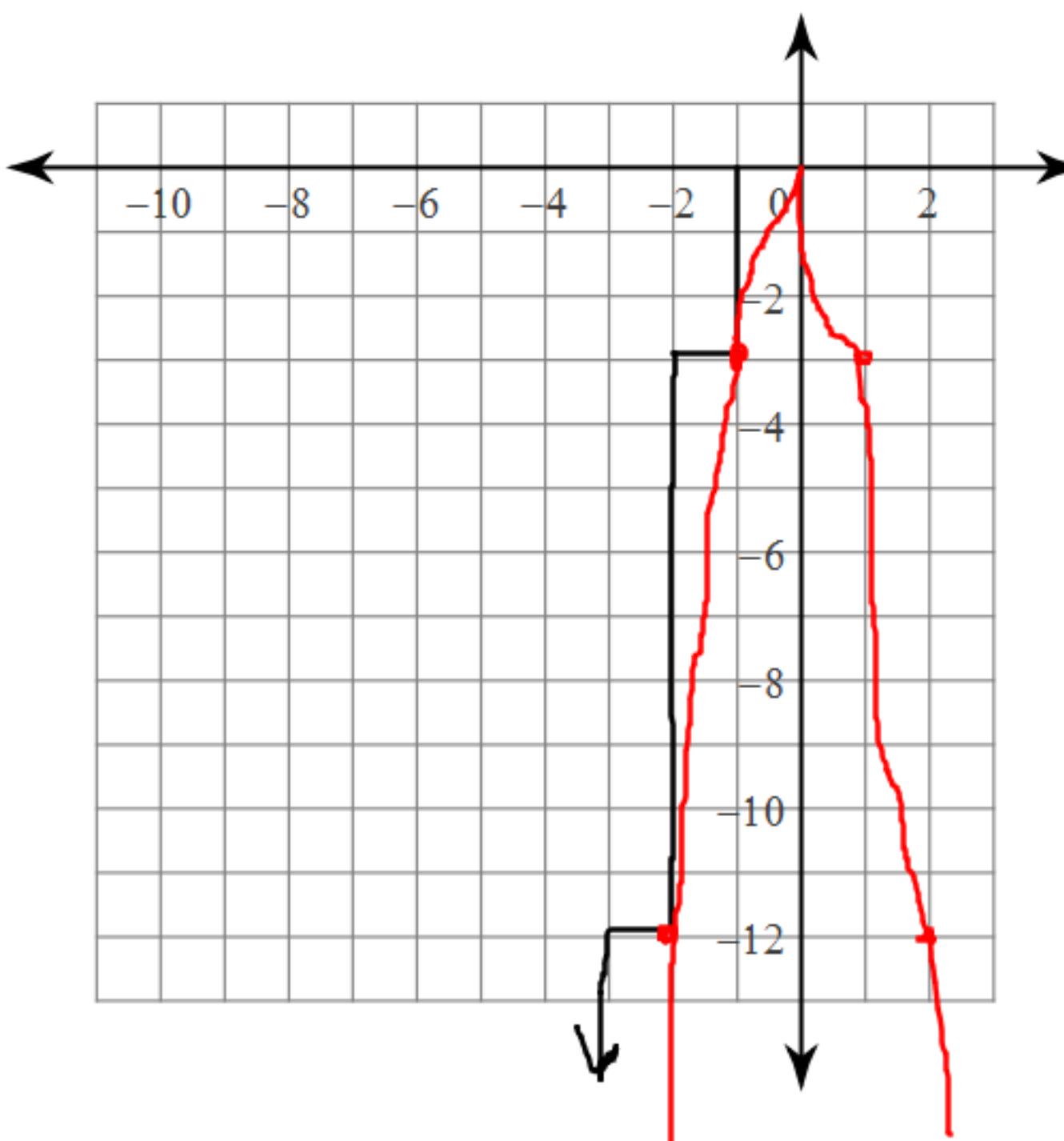




Show



6)  $y = -3x^2$



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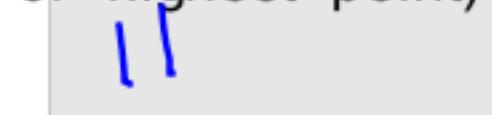
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Axis of symmetry- where the parabola fold in half equally.

*ex a. o.s. X = -1*

Vertex- the point on the parabola where it changes direction (lowest or highest point)

*ex (-1, 8)*



Max/min value- does the parabola have a max or min?

*ex → max value*



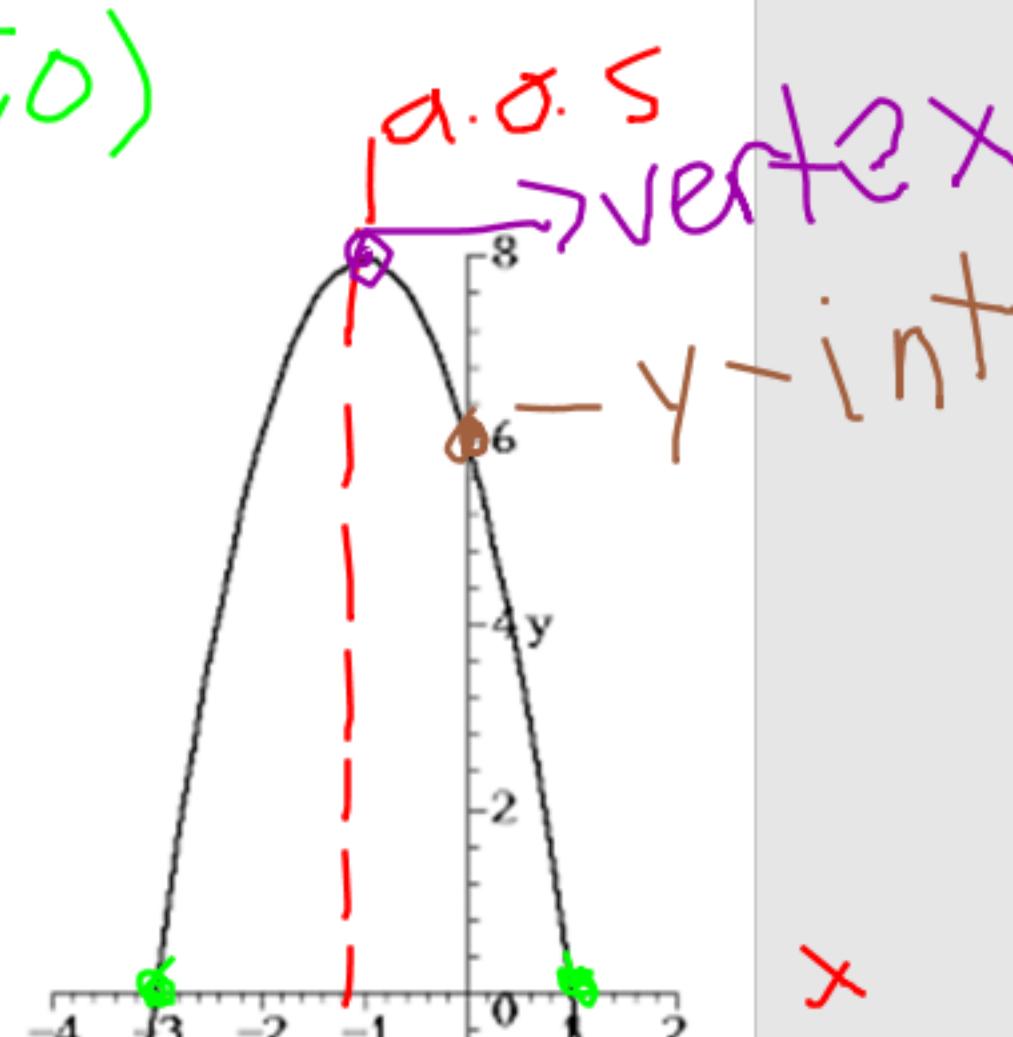
Zeros- where the parabola crosses the X axis (aka x-intercepts, roots)

*ex x-int -3 and 1  
(-3, 0) (1, 0)*

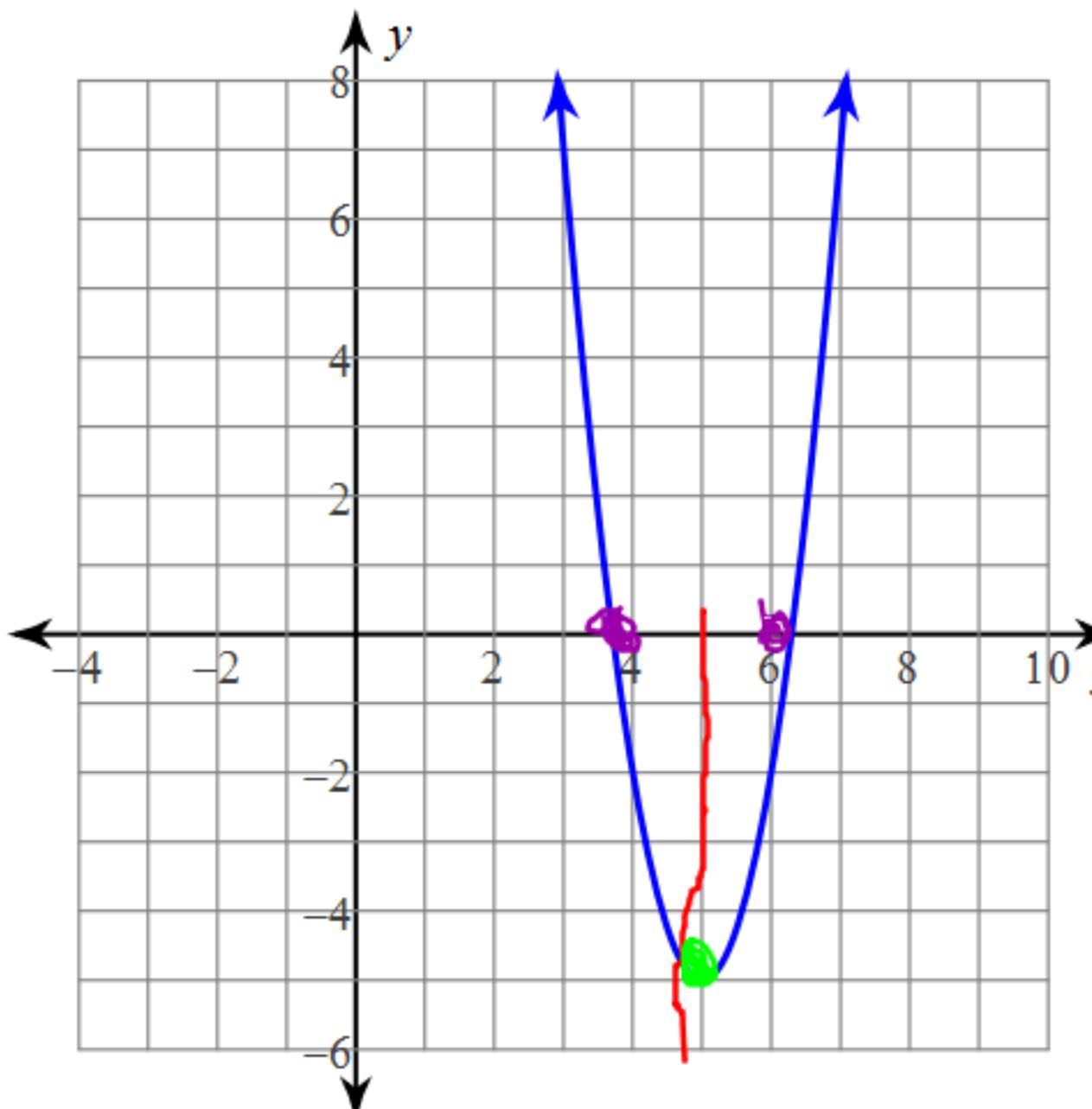
Y-intercept-

where the parabola crosses the Y axis

*ex y-int is 6  
(0, 6)*



1)



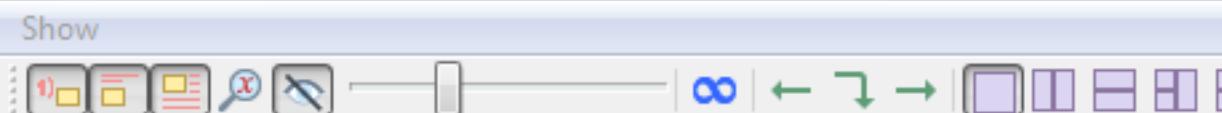
$$\text{A.O.S} \rightarrow x = 5$$

vertex (5, -5)

min  
zeroes/x-int: 4 and 6  
(4, 6)

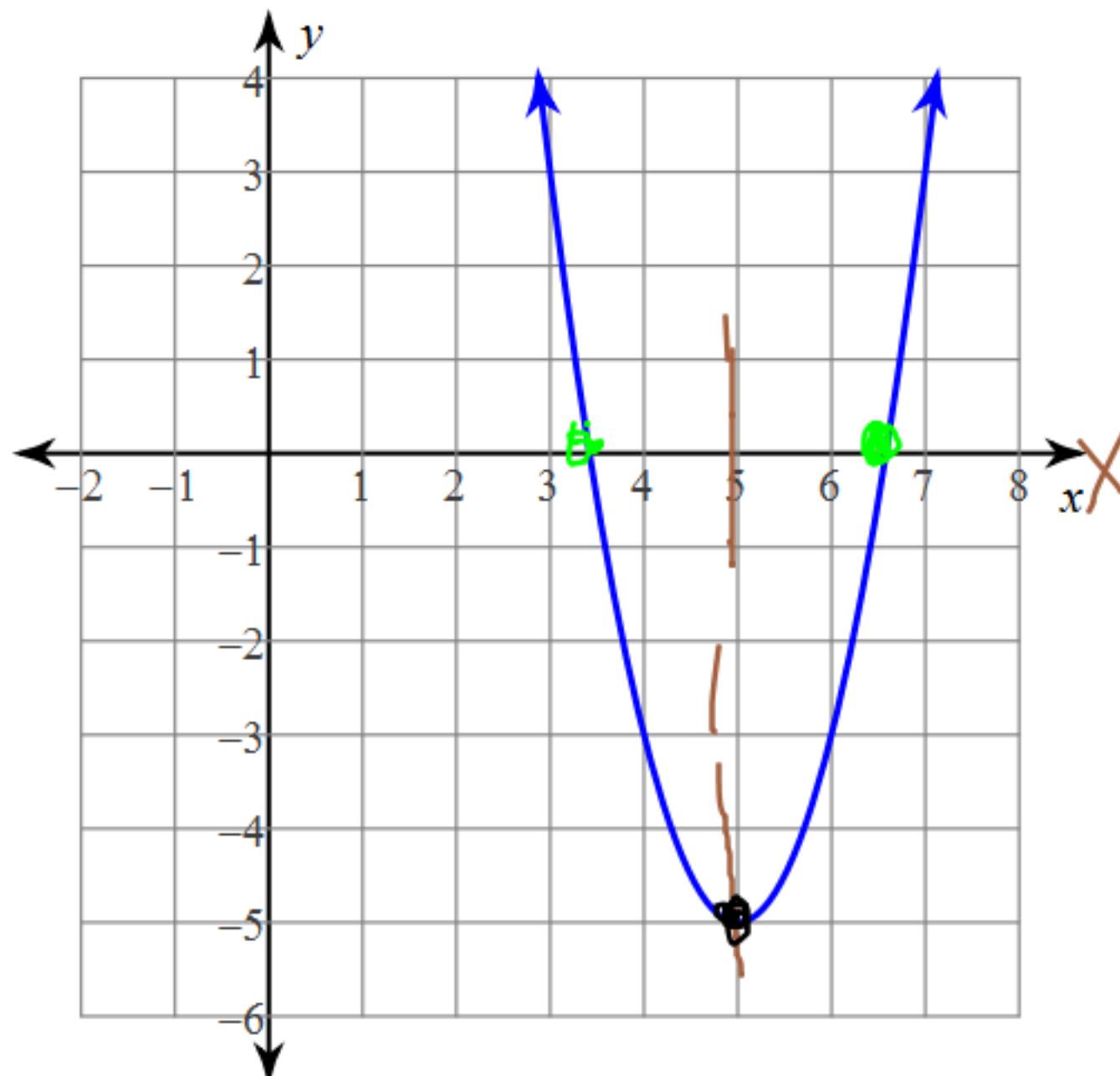
y-int  $\rightarrow$  none

opens up



Use the information provided state the axis of symmetry, vertex, max/min, zeroes, and y intercept, and whether it opens up or down.

3)



$$a > 0 \Rightarrow x = 5$$

vertex  $\rightarrow (5, -5)$

min  
x-int: 3.5 and 6.5

y-int: none

opens up