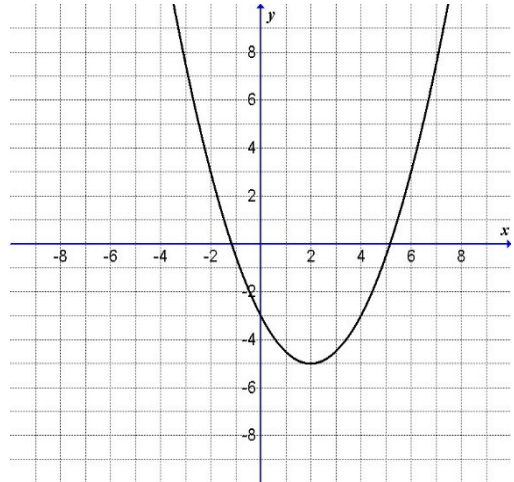


GRAPH USING KEY POINTS

Key points on a Parabola:

Draw the axis of symmetry and state its equation	
Draw and state the zeroes (x-intercepts)	
Draw and state the y-intercept	
State the direction of opening of the parabola	
Draw and state the vertex as an (x, y) point	

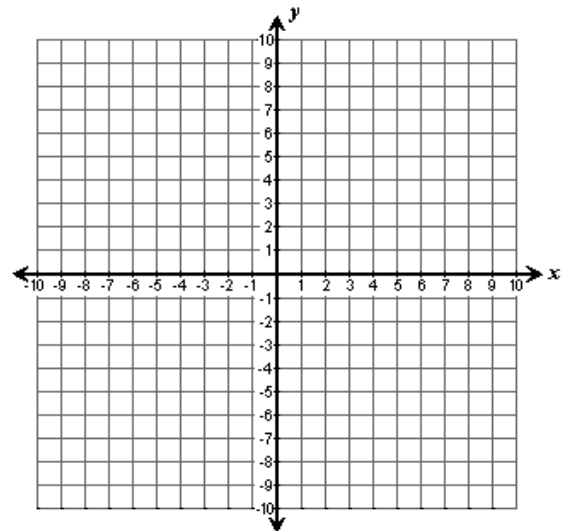


If we know the location of the axis of symmetry, then we can find the coordinates of the vertex.

EX: Given the following information, determine the location of the vertex and graph the parabola.

$$y = x^2 + 6x + 8$$

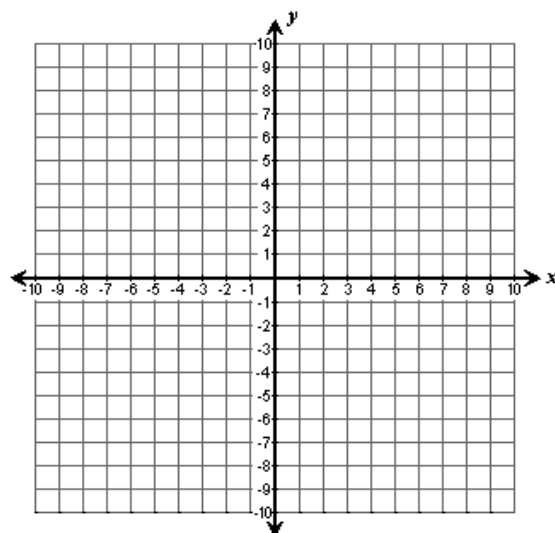
y-int	8
x-int: zeros	(-2,0) (-4,0)
A of S	$X = -3$
Vertex	



EX: Complete each of the following questions by determining the key features required to complete a graph of the quadratic.

$$y = -x^2 + 4x - 3$$

y-int	
x-int: zeros	
A of S	
Vertex	



$$y = 2x^2 - 4x - 6$$

y-int	
x-int: zeros	
A of S	
Vertex	

