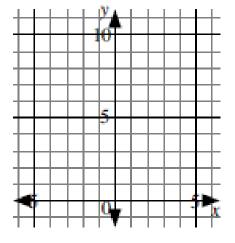
7.2 - Analysing Quadratic Functions

 Graph the function with equation y = x² by completing the table of values. Join the points with a smooth curve.
 The graph of this function is called a parabola.

х	-3	-2	-1	0	1	2	3
у							



- The <u>axis of symmetry</u> is the "mirror" line which splits the parabola in half.
 State the equation of the axis of symmetry for this parabola.
- The <u>vertex</u> of a parabola is where the axis of symmetry intersects the parabola.
 The vertex can represent a <u>minimum point</u> or <u>maximum point</u> depending on whether the parabola opens up or down.

Label the vertex (V) on the graph and state its coordinates.

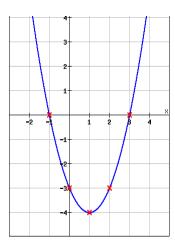
 The maximum or minimum value of a quadratic function occurs at the vertex and is represented by the y-coordinate of the vertex. Complete the following:

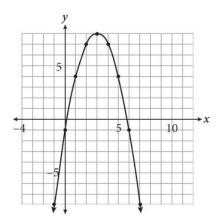
The ______ value of the function with equation $y = x^2$ is _____.

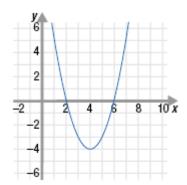
State the domain and range of the function with equation y = x², x ∈ R.

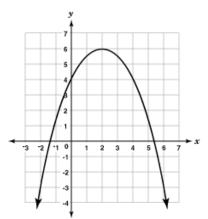
Domain:

Range:









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