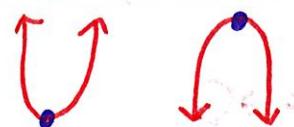
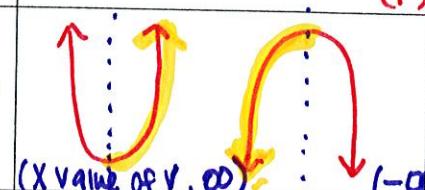
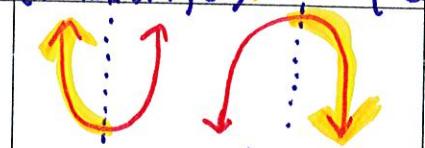


Characteristic	Explanation	How to find it...
Domain	X Values	X axis L → R $(-\infty, \infty)$
Range	y values	y axis B → T $(y, \infty)$ $(-\infty, y)$
Vertex $(h, k)$	* highest / lowest pt * Middle point	
Axis of symmetry	A vertical line that cuts the parabola in half @ the vertex	X value of vertex $x = \underline{\hspace{2cm}}$
x-intercept $(x_1, 0)$	where the parabola crosses the x-axis	Look @ graph: $y = 0$ ; x axis Also called: roots solutions zeros (2)
y-intercept $(0, y)$	where the parabola crosses the y-axis	Look @ graph: $x = 0$ y axis (1)
Interval of increase <u>  </u> <u>X values</u>	What part of my parabola has a <u>POSITIVE SLOPE</u> ?	
Interval of decrease <u>  </u>	What part of my parabola has a <u>NEGATIVE SLOPE</u> ?	
Maximum	* highest point	$y = \underline{\hspace{2cm}}$
Minimum	* lowest point	$y = \underline{\hspace{2cm}}$
End behavior	$x \rightarrow \infty f(x) \rightarrow \underline{\hspace{2cm}}$ $x \rightarrow -\infty f(x) \rightarrow \underline{\hspace{2cm}}$	$x \rightarrow \infty$ $x \rightarrow -\infty$ $x \rightarrow \infty$ $x \rightarrow -\infty$
Average rate of change <u>SLOPE</u>	$\frac{y_2 - y_1}{x_2 - x_1}$	# $< x <$ # [#, #] X values ① Graph → pts ② Substitute