

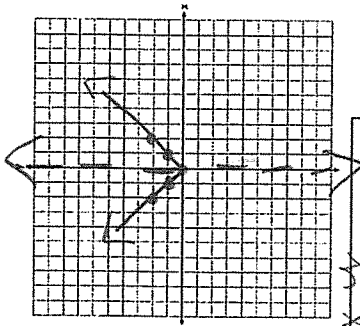
ame _____

Family of Functions:

Sketch the following parent function and complete the table describing the key features of the graph.

$$f(x) = |x|$$

x	f(x)
-2	$ -2 = 2$
-1	$ -1 = 1$
0	$ 0 = 0$
1	$ 1 = 1$



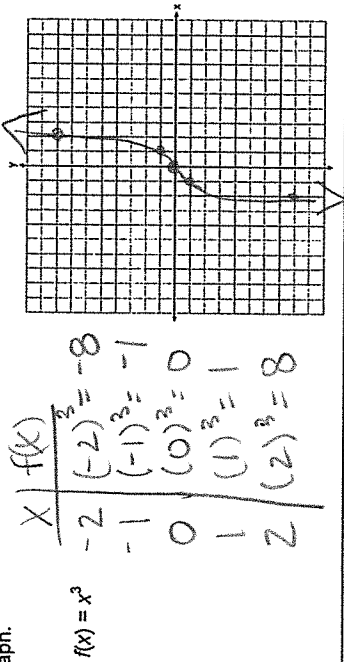
Label the x-intercept(s) and write the coordinate(s):	x, y (0,0)
Label the y-intercept(s) and write the coordinate(s):	x, y (0,0)
Draw the line of symmetry and write the equation:	Even
Label the maximum/minimum and write the coordinate:	(0,0)
Describe the end behavior:	As $x \rightarrow -\infty, f(x) \rightarrow +\infty$ As $x \rightarrow +\infty, f(x) \rightarrow +\infty$
Increasing interval	x-values [0, ∞)
Decreasing interval	x-values (-∞, 0]
Positive interval	
Negative interval	
Domain	x-values (-∞, ∞)
Range	y-values [0, ∞)

y-values

Name _____

Family of Functions:

Sketch the following parent function and complete the table describing the key features of the graph.



Label the x-intercept(s) and write the coordinate(s):	(0,0)
Label the y-intercept(s) and write the coordinate(s):	(0,0)
Draw the line of symmetry and write the equation:	ODD
Label the maximum/minimum and write the coordinate:	None
Describe the end behavior:	As $x \rightarrow -\infty, f(x) \rightarrow -\infty$ As $x \rightarrow +\infty, f(x) \rightarrow +\infty$
Increasing interval	(-∞, ∞)
Decreasing interval	None
Positive interval	
Negative interval	
Domain	(-∞, ∞)
Range	(-∞, ∞)