Function Characteristics
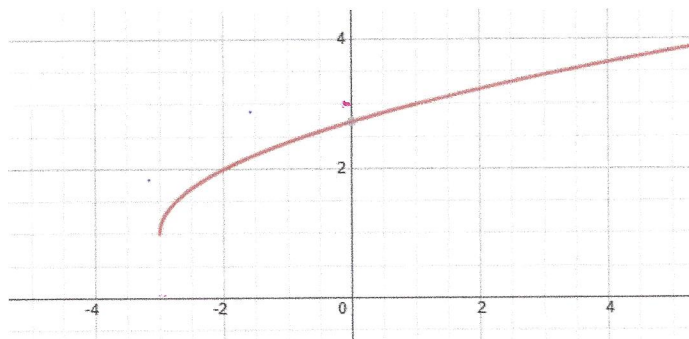
Domain	$[-3, \infty)$	X Intercepts	none
Range	$[1, \infty)$	Y Intercepts	$(0, 2.75)$
Relative Maximums	none	End Behavior	as $x \to \infty$, $y \to$ ∞
Relative Minimums	$(-3, 1)$		as $x \to -\infty$, $y \to$ 1
Increasing Intervals	$(-3, \infty)$	Decreasing Intervals	none
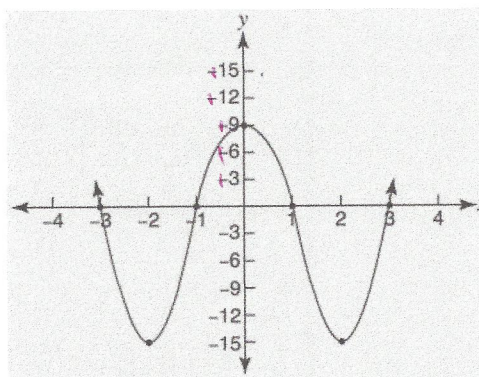
Domain	$(-\infty, \infty)$	X Intercepts	$(-3,0), (-1,0)$ $(1,0), (3,0)$
Range	$[-15, \infty)$	Y Intercepts	$(0, 9)$
Relative Maximums	$(0, 9)$	End Behavior	as $x \to \infty$, $y \to \infty$
Relative Minimums	$(-2, -15)$ $\cdot$ $(2, 15)$		as $x \to -\infty$, $y \to \infty$
Increasing Intervals	$(-2, 0)$ $(2, \infty)$	Decreasing Intervals	$(-\infty, -2), (0, 2)$
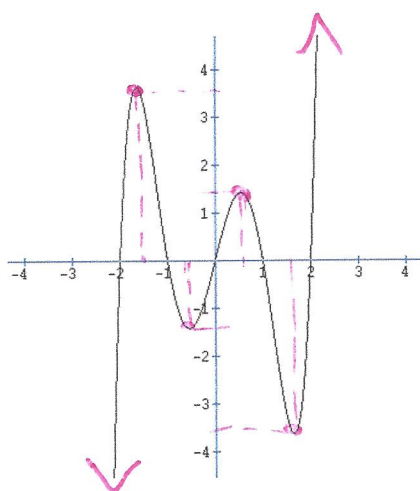
Domain	$(-\infty, \infty)$	X Intercepts	$(-2,0), (-1,0)$ $(0,0) (1,0) (2,0)$
Range	$(-\infty, \infty)$	Y Intercepts	$(0, 0)$
Relative Maximums	$(-1.5, 3.5)$ $(.5, 1.5)$	End Behavior	as $x \to \infty$, $y \to \infty$
Relative Minimums	$(-.5, 1.5)$ $(1.5, -3.5)$		as $x \to -\infty$, $y \to -\infty$
Increasing Intervals	$(-\infty, -1.5)$ $(-.5, .5)$ $(1.5, \infty)$	Decreasing Intervals	$(-1.5, -.5)$ $(.5, 1.5)$

Vocabulary

DECREASING INTERVAL in terms of x	trace the graph from left to right with your finger. The sections where your finger is moving down are decreasing intervals
DEPENDANT VARIABLE	Y, remember y values are dependent on the x value you put in the function
DOMAIN in terms of x	all the x values for a function intervals of x values
END BEHAVIOR	what happens at the far ends of the graph. if it points up, y is heading to +∞, down means -∞
INCREASING INTERVAL in terms of x	from left to right on the graph, when you trace with your finger, the sections when you are traveling up.
INDEPENDENT VARIABLE	X
INTERCEPTS (X and Y) points (x,y)	where the function graph crosses the x and y axis
RANGE in terms of y	all the y values for a function intervals of y values
RELATIVE MAXIMUM points (x,y)	peaks
RELATIVE MINIMUM points, (x,y)	Valley