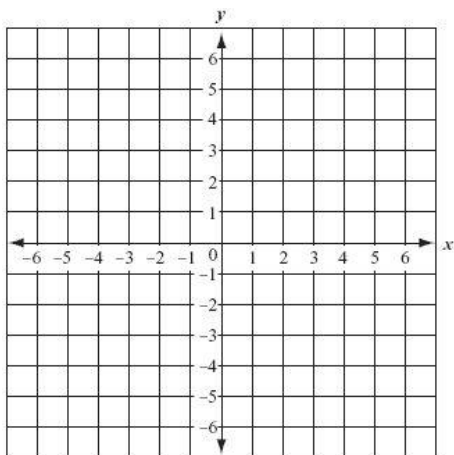


Name: _____ Hour: _____ Date: _____

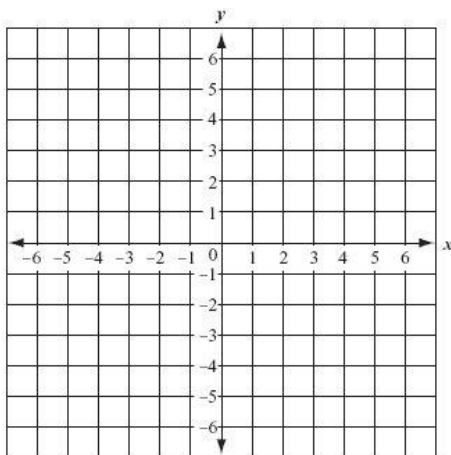
Parent Functions Test Review Guide

Write the equation of the parent function and sketch its graph.

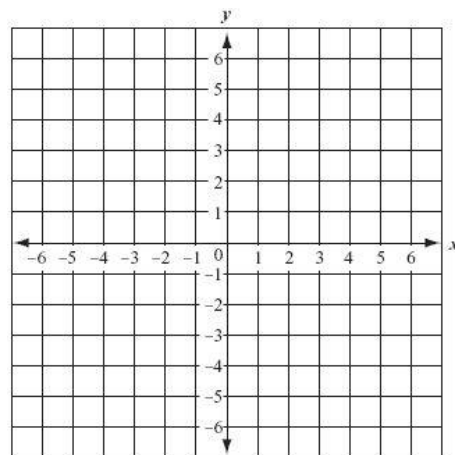
Absolute value _____



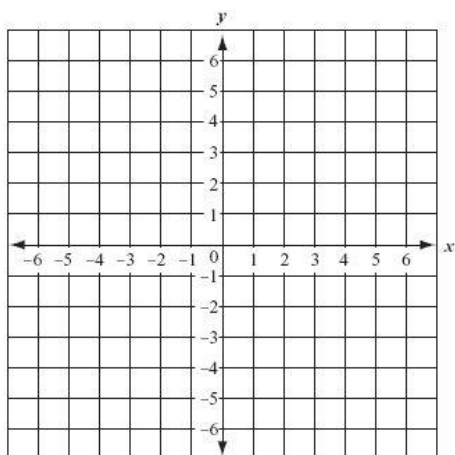
Polynomial (Quadratic) _____



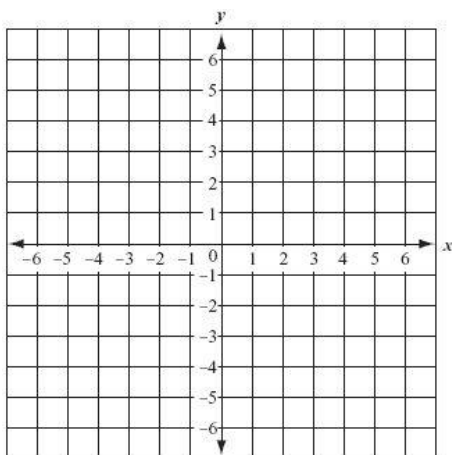
Exponential Growth _____



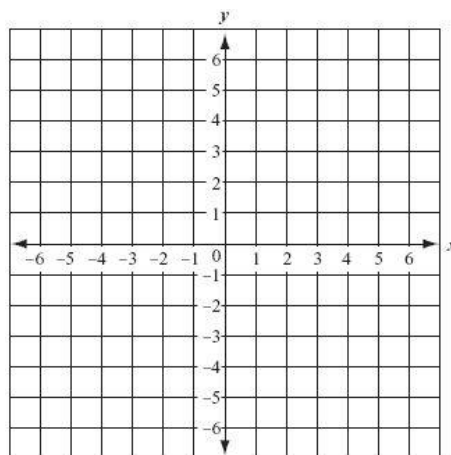
Radical (Square Root) _____



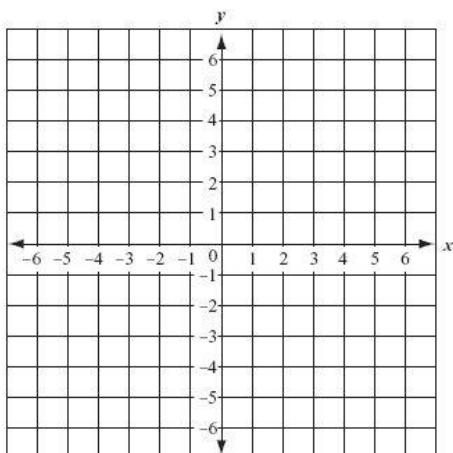
Exponential Decay _____



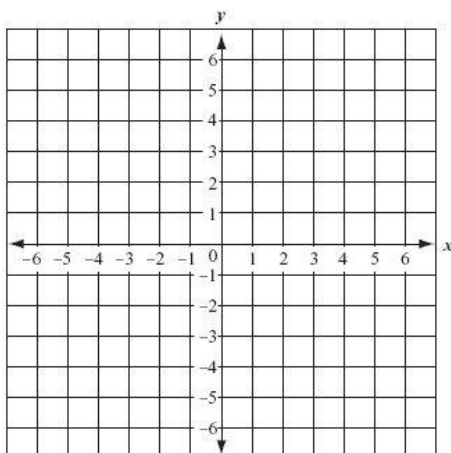
Polynomial (Cubic) _____



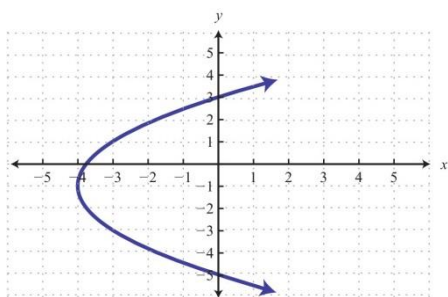
Linear _____



Radical (Cube root) _____

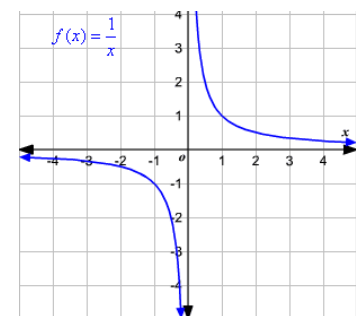


Determine if the following graphs represent functions. Describe your reasoning using the words DOMAIN and RANGE.



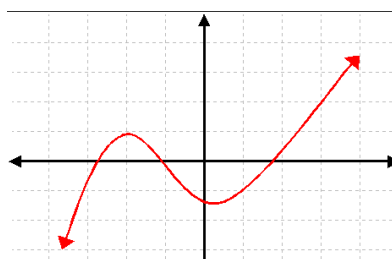
Function? _____

Explanation: _____



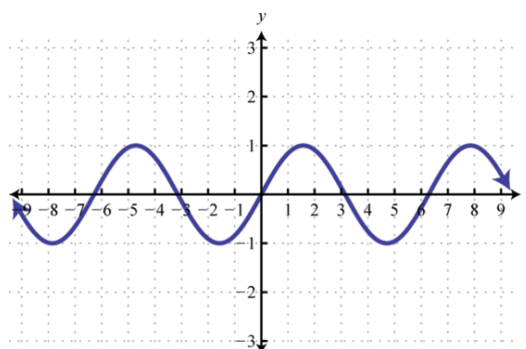
Function? _____

Explanation: _____



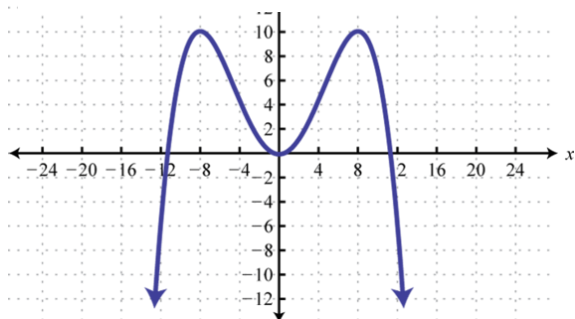
Function? _____

Explanation: _____



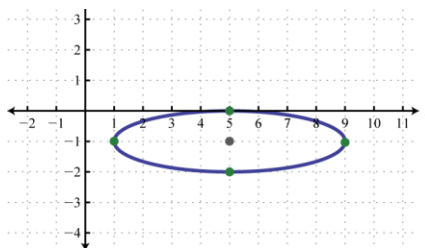
Function? _____

Explanation: _____



Function? _____

Explanation: _____



Function? _____

Explanation: _____

List the key features of each of the following graphs. Use interval notation when necessary.

Domain:

Constant:

Range:

x-intercepts:

Increasing:

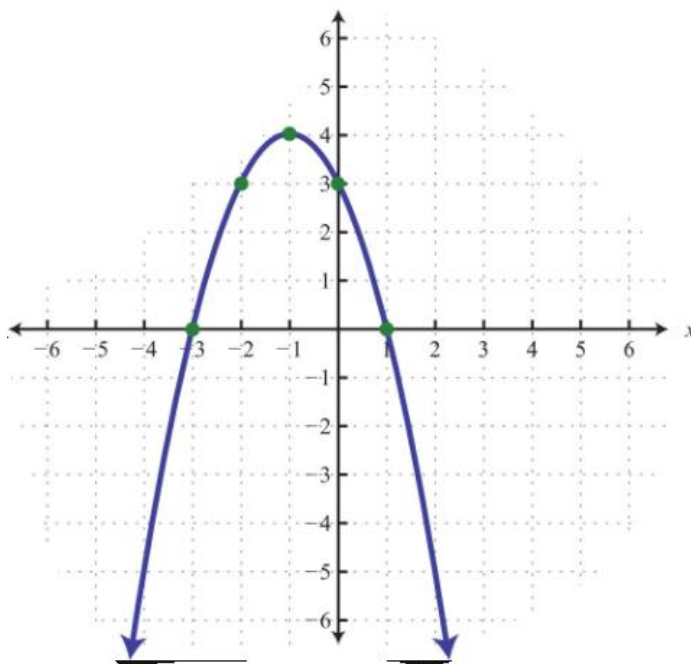
y-intercepts:

Decreasing:

End Behavior:

Left:

Right:



Domain:

Constant:

Range:

x-intercepts:

Increasing:

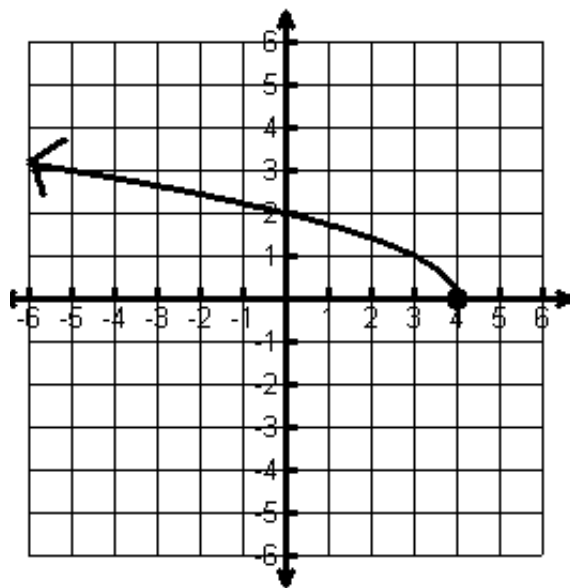
y-intercepts:

Decreasing:

End Behavior:

Left:

Right:



Domain:

Range:

Increasing:

Decreasing:

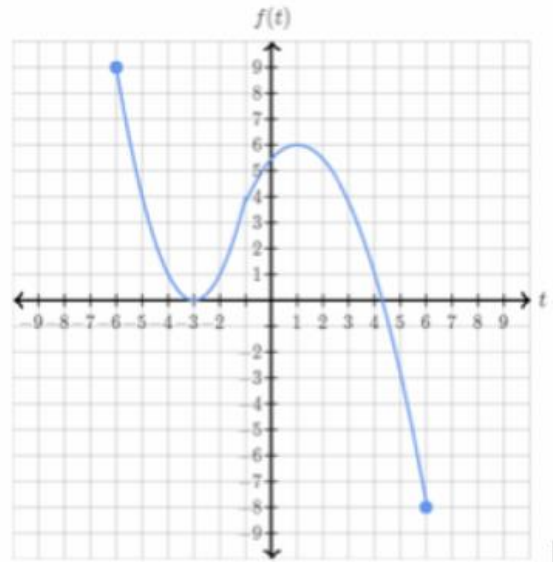
End Behavior:

Left:

Constant:

x-intercepts:

y-intercepts:



Right:

Domain:

Range:

Increasing:

Decreasing:

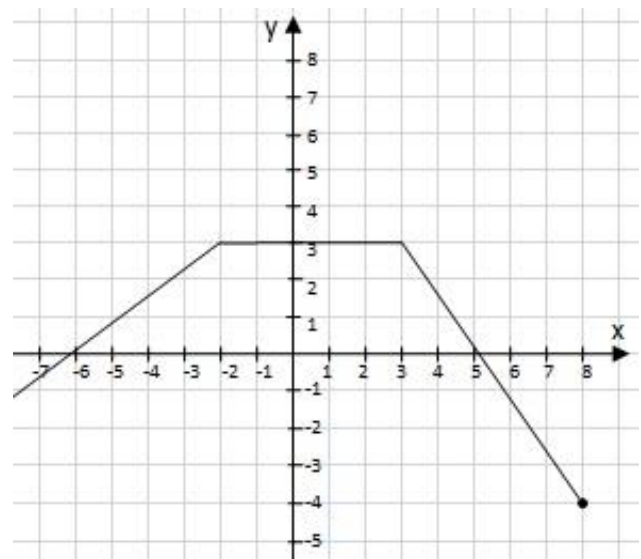
End Behavior:

Left:

Constant:

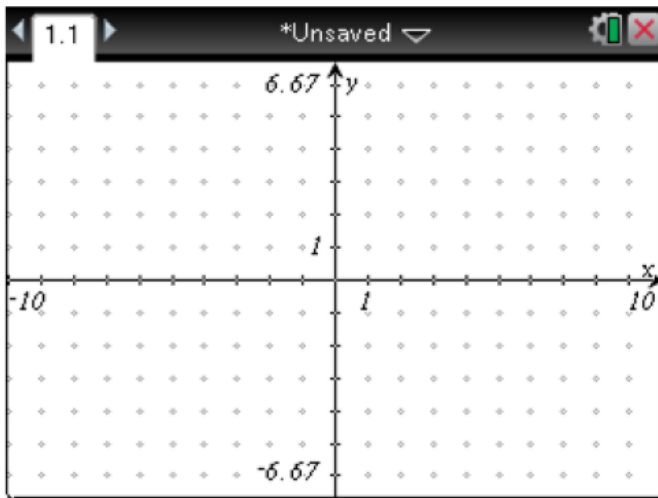
x-intercepts:

y-intercepts:



Right:

Sketch a *function* that meets the following conditions.

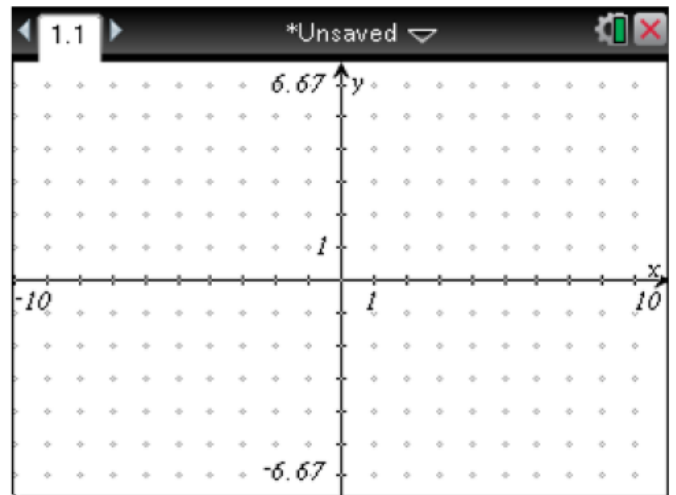


Domain: $(-2, 4]$

Range: $(-5, 6]$

Domain: $(-\infty, 8]$

Range: $(-\infty, 2]$



Domain: $(-4, 6)$

Range: $[-3, 5]$

With at least one increasing and at least one decreasing interval.

