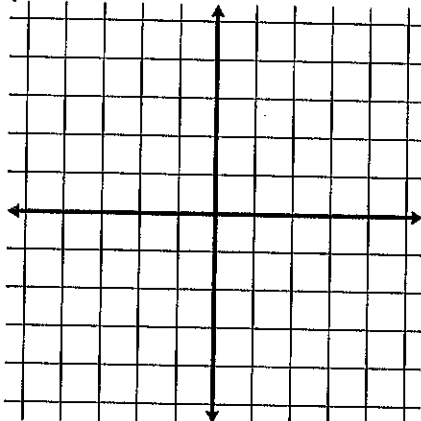


Family of Functions

Sketch a graph of the following functions

$$y = x$$



1) Determine the domain and range

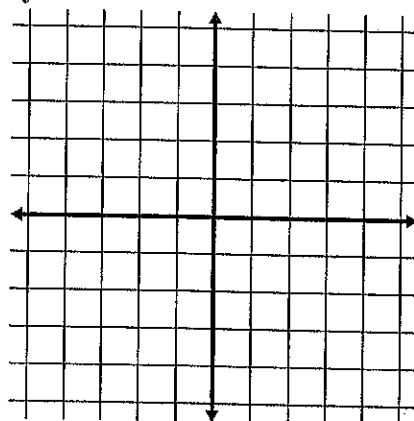
2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

$$y = x^2$$



1) Determine the domain and range

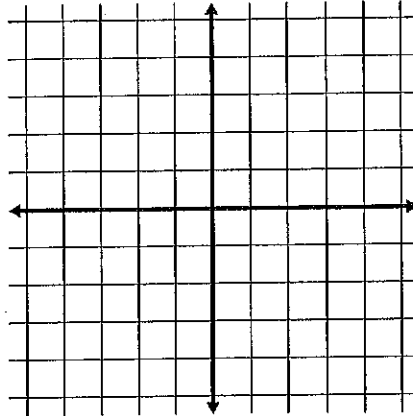
2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

$$y = x^3$$



1) Determine the domain and range

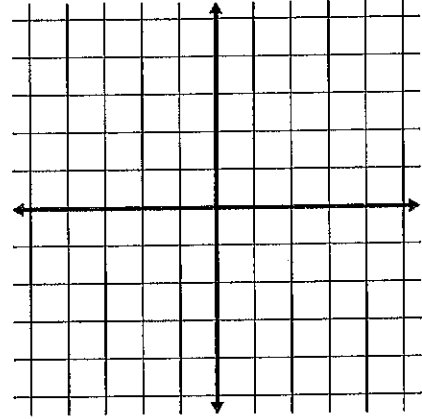
2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

$$y = \sqrt{x}$$



1) Determine the domain and range

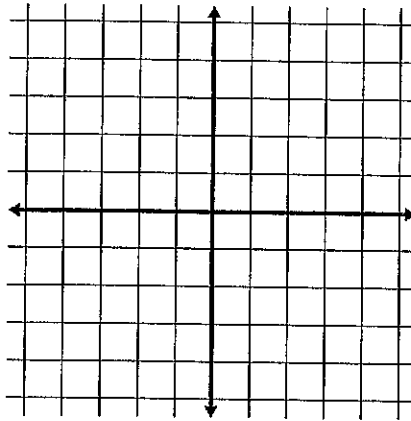
2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

$$y = |x|$$



1) Determine the domain and range

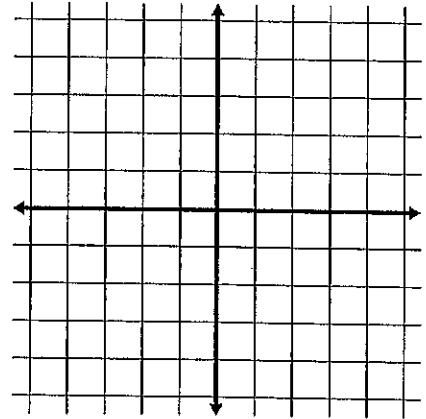
2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

$$y = \frac{1}{x}$$



1) Determine the domain and range

2) Is the function even, odd or neither

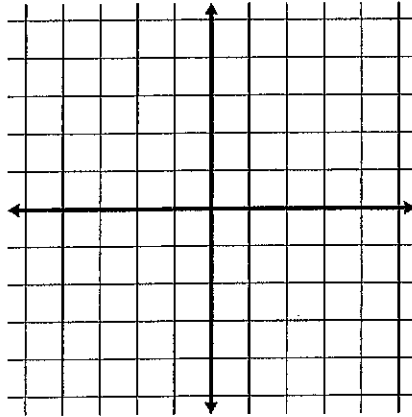
3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

6) Find any asymptotes

$$y = e^x$$



1) Determine the domain and range

2) Is the function even, odd or neither

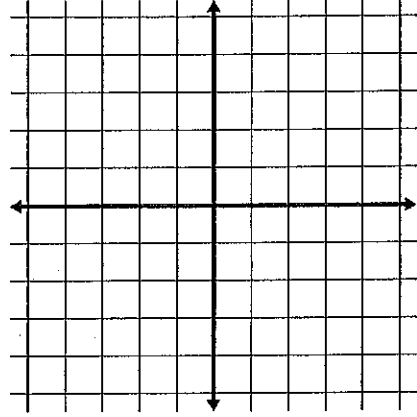
3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

6) Find any asymptotes

$$y = \ln x$$



1) Determine the domain and range

2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

6) Find any asymptotes