

1) Determine the domain and range

$$D: (-\infty, \infty)$$

$$R: (0, \infty)$$

2) Is the function even, odd or neither

Neither

3) Intervals of Increase or Decrease

Inc $(-\infty, \infty)$

4) Find any extrema.

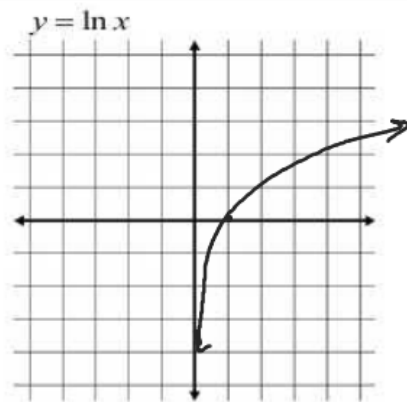
None

5) Determine the end behavior

$$\lim_{x \rightarrow \infty} f(x) = \infty \quad \lim_{x \rightarrow -\infty} f(x) = 0$$

6) Find any asymptotes

$$\text{H.A. } y = 0$$



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$$R: (-\infty, \infty)$$

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Inc $(0, \infty)$

4) Find any extrema.

None

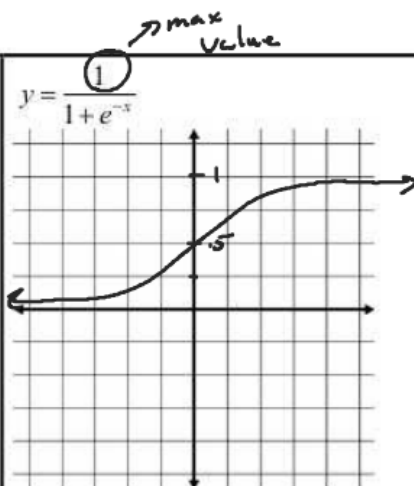
5) Determine the end behavior

$$\lim_{x \rightarrow \infty} f(x) = \infty \quad \lim_{x \rightarrow 0} f(x) = -\infty$$

6) Find any asymptotes

$$\text{V.A. } x = 0$$

Logistical Growth



1) Determine the domain and range

$D: (-\infty, \infty)$

$R: (0, 1)$

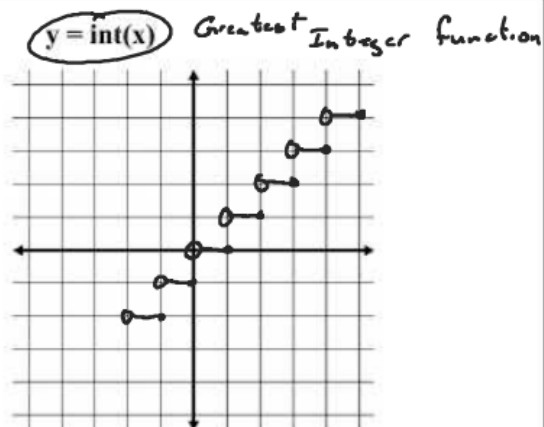
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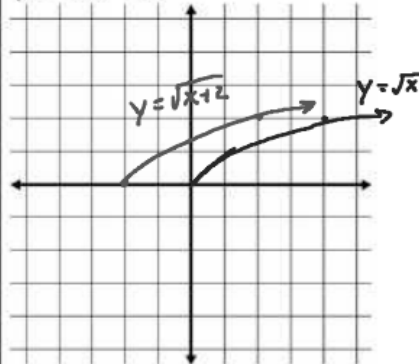
4) Find any extrema.

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Graph each function

$$y = \sqrt{x+2}$$



2) Find any intervals of increase or decrease

Ine $(-2, \infty)$

3) Is the function even odd or neither

4) Find any extrema.

Min $(-2, 0)$

5) Describe the transformation from the base function

Left 2

6) Determine the domain and range

$$D: [-2, \infty)$$

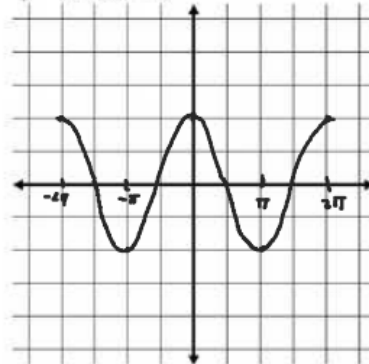
$$R: [0, \infty)$$

7) Determine the end behavior

$$\lim_{x \rightarrow \infty} f(x) = \infty$$

$$\lim_{x \rightarrow -2} f(x) = 0$$

$$y = 2\cos x + 1$$



2) Find any intervals of increase or decrease

3) Is the function even odd or neither

4) Find any extrema.

5) Describe the transformation from the base function

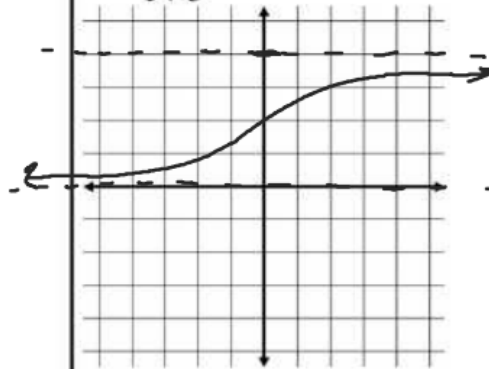
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$$f(x) = \sqrt{x}$$

Graph each function

$$y = \frac{4}{1 + e^{-x}}$$



2) Find any intervals of increase or decrease

3) Is the function even odd or neither

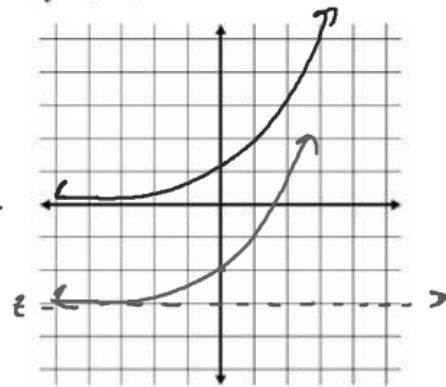
4) Find any extrema.

5) Describe the transformation from the base function

6) Determine the domain and range

7) Determine the end behavior

$$y = e^x - 3$$



2) Find any intervals of increase or decrease

3) Is the function even odd or neither

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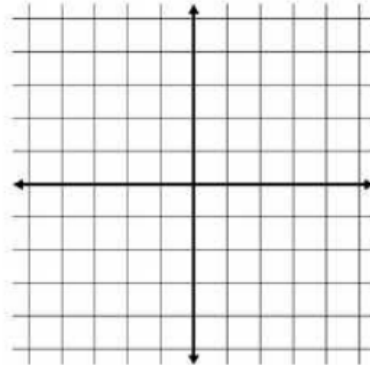
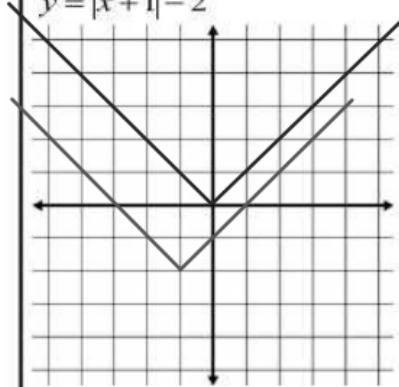
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Graph each function

$$y = |x + 1| - 2$$



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