

1) Determine the domain and range

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

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

2) Is the function even, odd or neither

odd

3) Intervals of Increase or Decrease

Inc $(-\infty, \infty)$

4) Find any extrema.

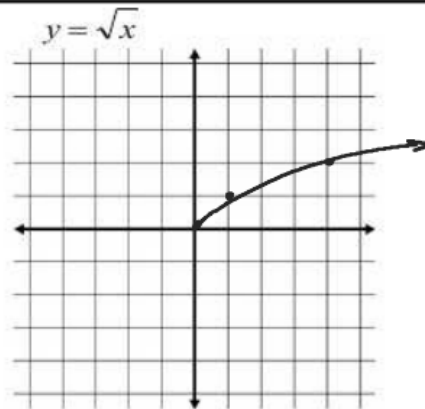
None

5) Determine the end behavior

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

6) Find any asymptotes

None



1) Determine the domain and range

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

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

2) Is the function even, odd or neither

Neither

3) Intervals of Increase or Decrease

Inc $(0, \infty)$

4) Find any extrema.

min $(0, 0)$

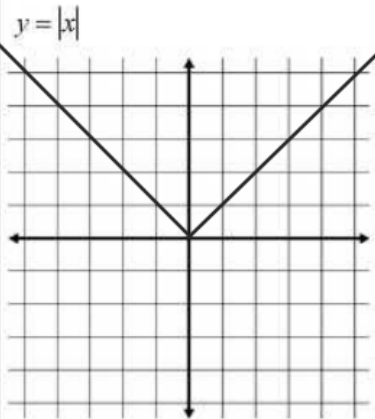
5) Determine the end behavior

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

6) Find any asymptotes

None

$$f(x) = \begin{cases} x & x \geq 0 \\ -x & x < 0 \end{cases}$$



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

2) Is the function even, odd or neither

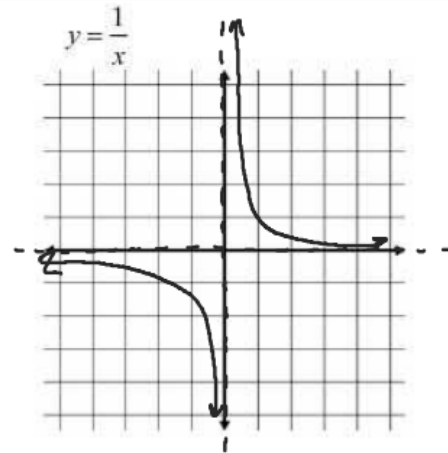
3) Intervals of Increase or Decrease

4) Find any extrema.

5) Determine the end behavior

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

6) Find any asymptotes



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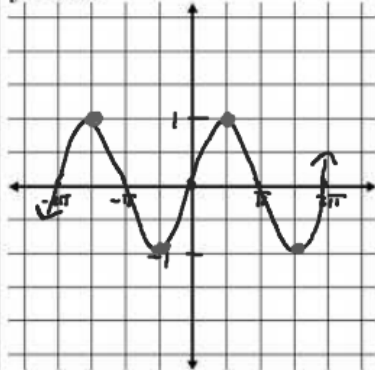
4) Find any extrema.

5) Determine the end behavior

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

6) Find any asymptotes

$y = \sin x$



1) Determine the domain and range

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

$$R: [-1, 1]$$

2) Is the function even, odd or neither

3) Intervals of Increase or Decrease

$$Inc: (-2\pi, -\frac{3\pi}{2}) \cup (-\frac{\pi}{2}, \frac{\pi}{2}) \cup (\frac{3\pi}{2}, 2\pi)$$

$$Dec: (-\frac{3\pi}{2}, -\frac{\pi}{2}) \cup (\frac{\pi}{2}, \frac{3\pi}{2})$$

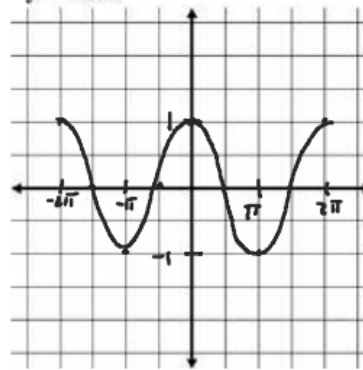
4) Find any extrema.

5) Determine the end behavior

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

6) Find any asymptotes

$y = \cos x$



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

$$[-2\pi, 2\pi]$$

$$[-2\pi, 2\pi]$$

DNE

Does Not
exist