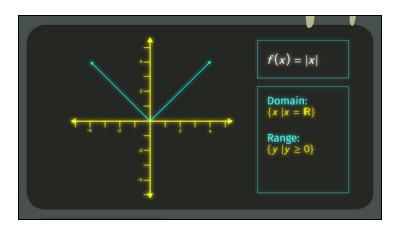
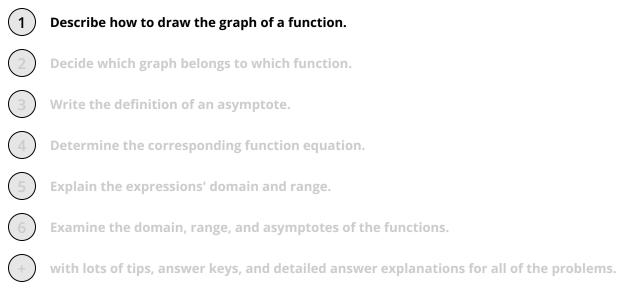
Printable Worksheets from sofatutor.com

Special Functions







The complete package, **including all problems**, **hints**, **answers**, **and detailed answer explanations** is available for all sofatutor.com subscribers.



Describe how to draw the graph of a function.

Choose the correct statements.

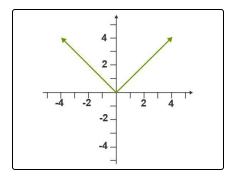
| | All the x -values make up the domain. | |
|-------|---|----------|
| · | All the y -values make up the domain. | |
| | | |
| | The graph of a function can be drawn in a (x,y) -coordinate system. | |
| | To check whether a graph belongs to a function, use the vertical line test. | |
| | To check whether a graph belongs to a function, use the horizontal line test. | a |

Hints for solving these problems



Describe how to draw the graph of a function.

Hint #1



Here you see the graph belonging to f(x) = |x|.

The domain is $D = \{x \mid x \in \mathsf{R}\}$ and the range $R = \{y \mid y \geq 0\}.$

Hint #2

The horizontal axis is called the x-axis and the vertical one the y-axis.

Hint #3

Given a function, for each x there exists one y = f(x).



Answers and detailed answer explanations for these problems



Describe how to draw the graph of a function.

Answer key: A, C, D

If you have any function you can draw its graph into an (x,y)-coordinate system. The x-axis is the horizontal axis while the y-axis is the vertical axis.

Each function has a domain, the set of all possible inputs, the x-values, and a range with all possible function values, the y-values.

If you'd like to check if a graph could belong to a function you can perform the vertical line test: each line parallel to the y-axis has at most one point in common with the graph.

