CONTINOUS AND DISCONTIOUS FUNCTIONS:
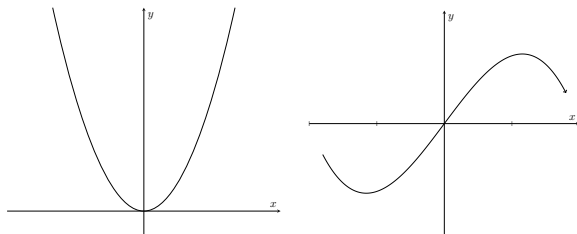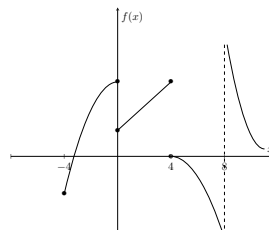
CONTINUOUS FUNCTION

DISCONTINUOUS FUNCTION

A function $f(x)$ is called continuous or a continuous function if it is continuous at each point in its domain (i.e. if $f(x)$ is continuous at $x = c$ for every choice of c in the domain of the function).

A function $f(x)$ is called discontinuous if there are points that are isolated from each other on a graph.

1.3 WORKED EXAMPLE

Are the following functions continuous or discontinuous?

  a) $f(x) = (x - 3)^3 + 1$

  b) $f(x) = |x|$

  c) $f(x) = \dfrac{1}{x^2 + 2}$