

# Odd function

An *odd function* is a function  $f(x)$  with the property that  $f(-x) = -f(x)$  for any value of  $x$ . The graph of  $y = f(x)$  for an odd function has rotational symmetry about the origin.

Examples are  $\sin x$  and  $x^3$ .

Note that it is possible for a function to be neither odd nor *even*, for example  $f(x) = 1 + 2x$ .

