

Average Rate of Change

Question

Over which of the following intervals do the functions $f(x) = x$ and $g(x) = x^2$ have the same average rate of change.

- (a) $(-\infty, \infty)$
- (b) $[0, 1]$
- (c) $[-1, 0]$
- (d) There are no intervals over which the functions f and g have the same average rate of change.

Answer: (b)