

Mean Value Theorem for Integrals Worksheet

For each problem, find the average value of the function over the given interval.

1. $f(x) = -x^2 - 2x + 5$; $[-4, 0]$

2. $f(x) = -x^4 + 2x^2 + 4$; $[-2, 1]$

3. $f(x) = \frac{4}{x^2}$; $[-4, -2]$