

### Average Value of a Function

Compute the average value of the function on the given interval:

$$1. \ f(x) = 3x \text{ on } [1,3]$$

$$2. \ f(x) = x^2 \text{ on } [-1,2]$$

$$3. \ f(x) = \sin x \text{ on } [0, \pi]$$

$$4. \ f(x) = \frac{1}{x} \text{ on } [1, e]$$

$$5. \ f(x) = e^x \text{ on } [-1, \ln 5]$$