

for any function and letting the number of data points go to so: over [a,b] (b-a) f(a+i(b-a)) $= \frac{1}{h_{10}} \int_{-h_{10}}^{h} f(x) dx.$ Ex: Find the average value of 3/x on the interval [1,8] Ave. = \(\frac{1}{8-1} \) \(\frac{8}{3} \) \(\times \, \dx \) 1 18 x 1/3 1x $\frac{1}{2}$ $\left[\frac{3}{4} \times \frac{4}{3}\right]^8$ $\frac{1}{7} \cdot \frac{3}{4} \left(8^{\frac{4}{3}} - 1^{\frac{4}{3}} \right)$ $\frac{3}{28} \left((3\sqrt{8})^4 - 1 \right)$ 3 (16-1)