#(x) = x² - x + 1, Find the average rate of change of the function f with respect to x over the interval [0,4]. Average Speed Average Rate of Change Distance Ax = (=(b)-+(a) = +(a+h)-+(w) Time Ax b-a / where beach and h > 0 (b) - f(a) [O,4] b-a f(4) - f(0) f(4)=(4)=(4)+1 $f(0) = (0)^2 - (0) + 1$ (42-4+1) - (03-0+1) **f(0)** Average Rate of Change of the Fundion of with respect to a over the interval [1,2] is 12. Slope of secont line passing through (0,1) and (4,13) is 3.

f(x) = 4x2, Find Average rate of change of function f over ر جرا ۲ Ax = f(b)-+(a) F(2)-F(1) Average rate of change of the function of with respect to x over the interval [1,2] is 12. Geometrically, the Slore of the secont line passing through the Points (1,4) and (2, 14) is 12.

Find the average rate of change of the function $f(x) = \sqrt{x} + 1$ over the interval [1,4].

Average Rate of Change

Ax = F(b) - F(a)

$$\frac{b-a}{f(b)-f(a)} = \begin{bmatrix} 1, 4 \end{bmatrix} + (x) = \sqrt{x} + 1 + 1 + (b) = f(4) + (1) + (1) + (2) + (3) + (4) +$$

(T+1)-(VT+1)

The average rate of change of the function fover the interval.

[1,4] is approximately 0.33