KeTTask001-1

1 Q01-4 [3] Calculate the average rate of change of the

Q01 *The average rate of change*

- [3] *Calculate the average rate of change of the function* $y = x^2$ *from* a *to* b.
- [3] $= a + b$

AC ← → DL OK | Nxt Pg=4 Pre | Un AC PS PL

2 [3]= a+b

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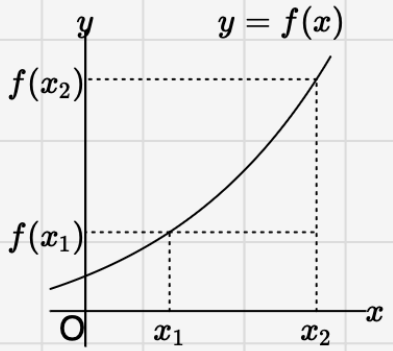
Rset Play Pau Rev Stop

3;;32024120526472;;Q01---;;[1]= 1;;[2]= 4;;[3]= a+b

[The average rate of change]

$$\frac{f(x_2) - f(x_1)}{x_2 - x_1}$$

is called the average rate of change of $f(x)$ from x_1 to x_2.



[Example]

The average rate of change of the function $f(x) = x^2 + 3$ from 2 to 5 is

$$\frac{28 - 7}{5 - 2} = \frac{21}{3} = 7.$$