

## 6 Difference Quotient as an average rate of change

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Marks

1. What is meant by term rate of change?

[5]

2. What is the formula for the difference quotient ? What does the difference quotient find?

[1]

3. What is the difference quotient for the function:

[1]

A.  $y = x^2 + 1$

B.  $f(x) = 3x - 2$

C.  $f(x) = 2x^3 + x^2 + 2x - 1$