Rate of Change — Practice Test

Ontario Calculus and Vectors, Grade 12, University Preparation (MCV4U) • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The slope of the secant to $y = x^2$ from x equal to 1 to x equal to 2 is**

- A 3
- B 2
- C 4
- D 14

Understand It with Pulse | Flag a mistake

2 The slope of the secant to $y = x^2$ from x equal to 1 to x equal to 3 is

- A 3
- B 4
- C 5
- D 6

Understand It with Pulse | Flag a mistake

3 The slope of the secant to $y = x^2$ from x equal to 1 to x equal to 4 is

- A 4
- B 6
- C 5
- D 8

Understand It with Pulse | Flag a mistake

4 The slope of the secant to $y = x^2$ from x equal to 1 to x equal to 5 is

- A 5
- B 7
- C 10
- D 6

Understand It with Pulse | Flag a mistake

5 For $f(x) = 2x^2$ the instantaneous rate of change at x equal to 6 is

- A 26
- B 22
- C 24
- D 12

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6 **For f(x) = 2x² the instantaneous rate of change at x equal to 7 is**

A 30

B 26

C 14

D 28

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7 **For f(x) = 2x² the instantaneous rate of change at x equal to 8 is**

A 32

B 34

C 30

D 16

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8 For f(x) = 2x² the instantaneous rate of change at x equal to 9 is

- A 38
- B 36
- C 34
- D 18

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9 For f(x) = 2x² the instantaneous rate of change at x equal to 10 is

- A 42
- B 40
- C 38
- D 20

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10 **For $f(x) = 2x^2$ the instantaneous rate of change at x equal to 11 is**

A 46

B 42

C 44

D 22

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	C	**9.**	B
2.	B	**6.**	D	**10.**	C
3.	C	**7.**	A		
4.	D	**8.**	B		

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