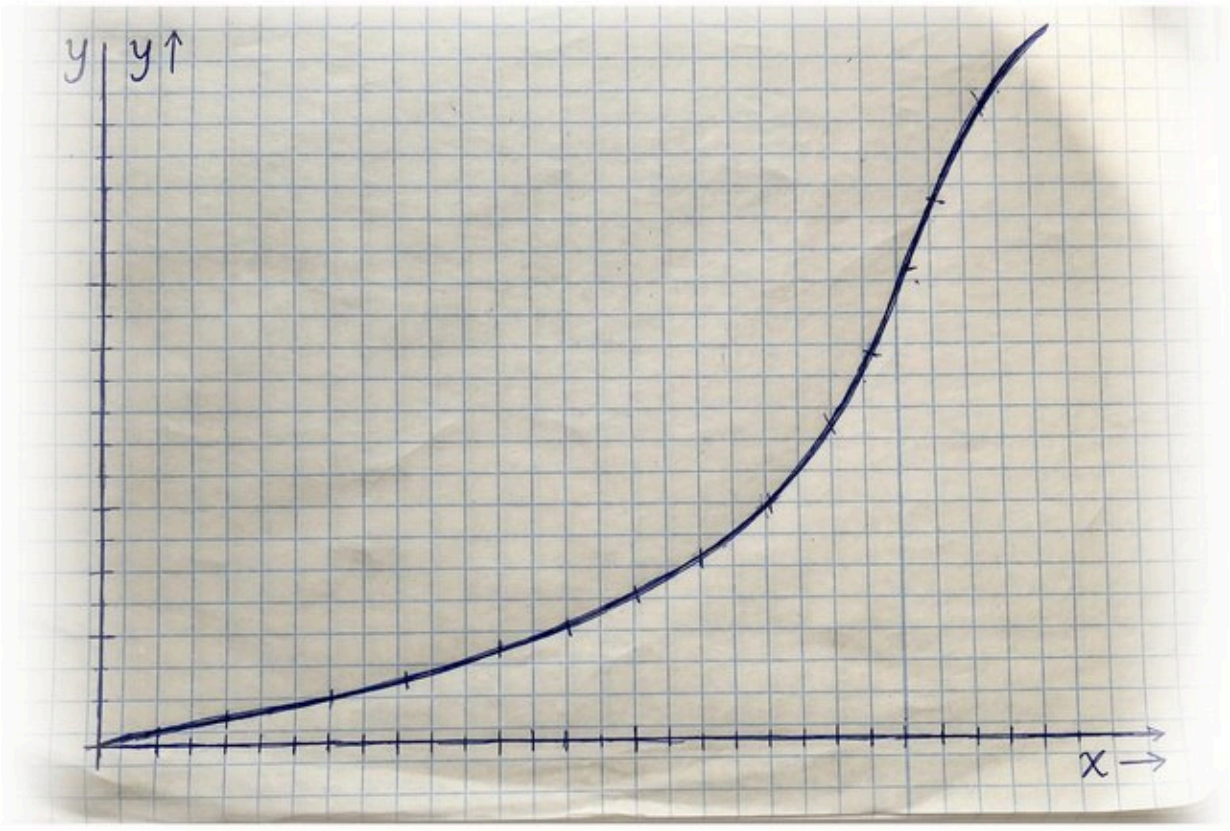
Rates of Change and Increasing and Decreasing Functions — Practice Test

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 **For $f(x) = x^3 - 3x$, the derivative at $x = 2$ is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **For $f(x) = x^3 - 3x$, the derivative at $x = 3$ is**



ANSWER

Understand It with Pulse | Flag a mistake

3 **For $f(x) = x^3 - 3x$, the derivative at $x = 4$ is**

ANSWER

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4 **For $f(x) = x^3 - 3x$, the derivative at $x = 5$ is**

ANSWER _____

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5 **For $f(x) = x^3 - 3x$, the derivative at $x = 6$ is**

ANSWER _____

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6 **For $f(x) = x^3 - 3x$, the derivative at $x = 7$ is**

ANSWER _____

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7 **For $f(x) = 2x^2 + 1$, the average rate of change from $x = 1$ to $x = 3$ is**

ANSWER _____

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8 **For $f(x) = 3x^2 + 4$, the average rate of change from $x = 1$ to $x = 3$ is**

ANSWER _____

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9 **For $f(x) = 4x^2 + 2$, the average rate of change from $x = 1$ to $x = 3$ is**

ANSWER _____

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10 **For $f(x) = 5x^2 + 3$, the average rate of change from $x = 1$ to $x = 3$ is**

ANSWER _____

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ANSWER KEY

1. 9
2. 24
3. 45
4. 72
5. 105
6. 144
7. 8
8. 12
9. 16
10. 20

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