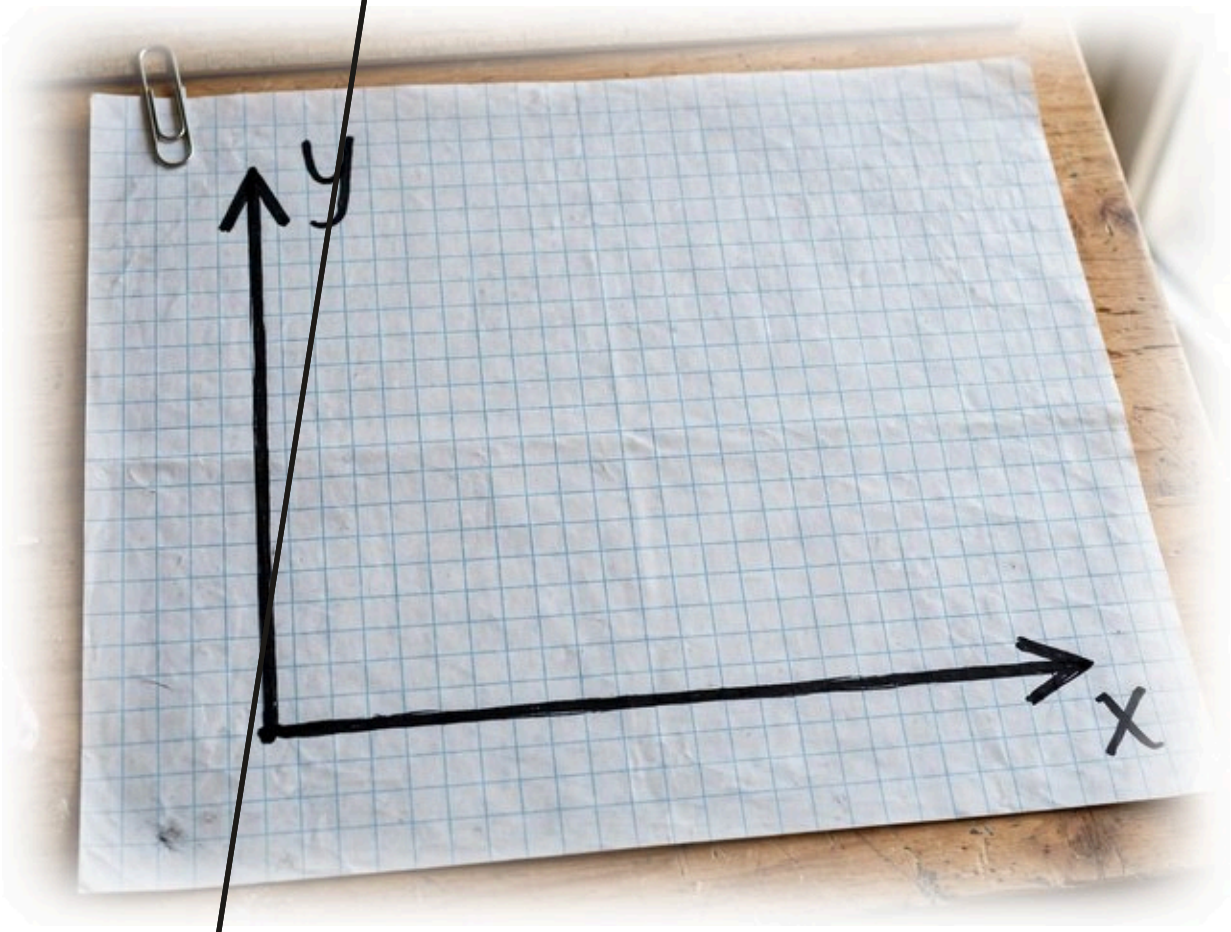
YUKON CALCULUS 12 (MCALC12) · UNIT B · 5 QUESTIONS

Differentiation Rules — 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 **If f(x) = x², then f'(3) found from the limit definition is**



ANSWER

Understand It with Pulse | Flag a mistake

2 $\frac{d}{dx}\sqrt{x}$ is

A $\frac{1}{}$

B $\frac{1}{}$

C $2\sqrt{x}$

D $-\frac{1}{}$

Understand It with Pulse | Flag a mistake

3 $\frac{d}{dx}x^{3}/^{2}$ is

A $\frac{3}{}$

B $\sqrt{x}$

C $\frac{1}{}$

D $\frac{2}{}$

Understand It with Pulse | Flag a mistake

4 $\frac{d}{dx}[x \sin x]$ is

A sin x + x cos x

B cos x - x sin x

C x cos x - sin x

D sin x - x cos x

Understand It with Pulse | Flag a mistake

5 $\frac{d}{dx}\frac{2x-1}{x+2}$ is

A $\underline{5}$

B $\underline{3}$

C $\underline{-5}$

D $\underline{2}$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 6
2. B
3. A
4. A
5. A

© 2026 Brett Robbins. All Rights Reserved.