SASKATCHEWAN CALCULUS 30 · UNIT A · 10 QUESTIONS

Limits and Continuity — 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 **Evaluate the limit as x approaches 4 of 2x + 6.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Evaluate the limit as x approaches 8 of (x^2 - 64) / (x - 8) .**

ANSWER _____

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3 **Evaluate the limit as x approaches infinity of $\frac{1}{x^4}$.**

ANSWER _____

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4 **A student claims $f(x) = x^2$ has a hole at $x = 9$. What is wrong with this claim?**

- **A** x^2 is a polynomial, so its graph has no holes
- **B** x^2 is undefined at 9
- **C** the limit at 9 does not exist
- **D** 9 is not in the domain

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5 **Evaluate the limit as x approaches 4 of 1x + 8.**

ANSWER _____

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6 **Evaluate the limit as x approaches 0 of $\frac{4x}{5x}$.**

ANSWER _____

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7 **Evaluate the limit as x approaches infinity of $\frac{1}{x^9}$.**

ANSWER _____

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8 **Which of the following is true of $f(x) = x^2$ at $x = 7$?**

A Its graph has a hole there

B It is continuous there

C It is undefined there

D Its limit does not exist there

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9 **Evaluate the limit as x approaches 4 of 1x + 7.**

ANSWER _____

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10 **Evaluate the limit as x approaches 0 of $\frac{1x}{3x}$.**

ANSWER

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ANSWER KEY

1. 14
2. 16
3. 0
4. A
5. 12
6. 0.8
7. 0
8. B
9. 11
10. 0.33

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