INDETERMINATE FORMS AND L'HOPITAL'S RULE - PRACTICE TEST | NEW BRUNSWICK CALCULUS 120 · UNIT E · 10 QUESTIONS

Indeterminate Forms and l'Hopital's Rule — 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 **The limit as x approaches 0 of (1 - cos(2x) / x² is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The limit as x approaches 0 of (1 - cos(3x) / x² is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The limit as x approaches 0 of (1 - cos(4x) / x² is**

ANSWER _____

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4 **The limit as x approaches 0 of (1 - cos(5x) / x² is**

ANSWER _____

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5 **The limit as x approaches 0 of (1 - cos(6x) / x² is**

ANSWER _____

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6 **The limit as x approaches 0 of (1 - cos(7x) / x² is**

ANSWER _____

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7 **Direct substitution in the limit as x approaches 2 of (x^2 - 4) / (x - 2) gives the form**

- A $\frac{0}{0}$
- B $\frac{1}{0}$
- C a finite number
- D infinity

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8 **Direct substitution in the limit as x approaches 3 of (x^2 - 9) / (x - 3) gives the form**

- A $\frac{1}{0}$
- B $\frac{0}{0}$
- C a finite number
- D infinity

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9 **Direct substitution in the limit as x approaches 4 of (x^2 - 16) / (x - 4) gives the form**

- **A** $\frac{1}{0}$
- **B** a finite number
- **C** $\frac{0}{0}$
- **D** infinity

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10 **Direct substitution in the limit as x approaches 5 of (x^2 - 25) / (x - 5) gives the form**

- **A** $\frac{1}{0}$
- **B** a finite number
- **C** infinity
- **D** $\frac{0}{0}$

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ANSWER KEY

1.	2	**5.**	18	**9.**	C
2.	4.5	**6.**	24.5	**10.**	D
3.	8	**7.**	A		
4.	12.5	**8.**	B		

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