PRINCE EDWARD ISLAND CALCULUS 12 · UNIT A

Limits and Continuity — Practice Test

Prince Edward Island Calculus 12 • 25 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 limit as x approaches 2 of the quotient x² - 4 / x - 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The limit as x approaches 4 of x³ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The limit as x approaches 2 of x² + 1x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The limit as x approaches infinity of 5x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The limit as x approaches 5 of the constant function 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The limit as x approaches 7 of 2x minus 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A removable discontinuity appears as a**

A vertical asymptote

B corner in the graph

C hole in the graph

D jump in the graph

Understand It with Pulse | Flag a mistake

8 **An infinite discontinuity is associated with a**

A vertical asymptote

B horizontal asymptote

C hole

D corner

Understand It with Pulse | Flag a mistake

9 **Continuity on a closed interval requires the function to be continuous at**

A integer points only

B positive points only

C every point of the interval including endpoints in the one sided sense

D the midpoint only

Understand It with Pulse | Flag a mistake

10 **Direct substitution works for a limit when the function is**

A a polynomial only

B undefined there

C periodic

D continuous at that point

Understand It with Pulse | Flag a mistake

11 **For continuity at x = 2 , if the limit is 7 then the function value at 2 must be**

ANSWER

Understand It with Pulse | Flag a mistake

12 **One sided limits must agree for a two sided limit to**

A be zero

B be infinite

C be a derivative

D exist

Understand It with Pulse | Flag a mistake

13 **The intermediate value theorem applies to**

A discontinuous functions

B continuous functions

C all functions

D polynomials only

Understand It with Pulse | Flag a mistake

14 **The limit as x approaches infinity of a rational function with equal degrees is**

A the constant term ratio

B the ratio of leading coefficients

C zero

D infinity

Understand It with Pulse | Flag a mistake

15 **The limit as x approaches 0 of cosine x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The limit as x approaches 0 of sine xx is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **The limit as x approaches 3 of the quotient x^2 - 9 / x - 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The limit as x approaches 2 of x^4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The limit as x approaches 3 of $x^2 + 2x$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The limit as x approaches infinity of $3x^2$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The limit as x approaches 0 of the constant function 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **The limit as x approaches 10 of x minus 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 The limit as x approaches 4 of the quotient $x^2 - 16 / x - 4$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

24 The limit as x approaches 3 of x^3 is

ANSWER _____

Understand It with Pulse | Flag a mistake

25 The limit as x approaches 4 of $x^2 + 1x$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	4	**10.**	D	**19.**	15
2.	64	**11.**	7	**20.**	0
3.	6	**12.**	D	**21.**	4
4.	0	**13.**	B	**22.**	7
5.	9	**14.**	B	**23.**	8
6.	11	**15.**	1	**24.**	27
7.	C	**16.**	1	**25.**	20
8.	A	**17.**	6		
9.	C	**18.**	16		

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