Assignment Previewer

UB 1.4 (3885577)		
Current Score	0/00	

Current Score:	0	/29															
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
Points	0/1	0/1	0/1	0/2	0/4	0/4	0/4	0/2	0/1	0/1	0/2	0/1	0/1	0/1	0/1	0/2	0/29

1. 0/1 points LarCalc9 1.4.010. [1245639]

Find the limit (if it exists). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 6^+} \frac{6 - x}{x^2 - 36}$$

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2. 0/1 points LarCalc9 1.4.014. [1089603]

Find the limit (if it exists). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 9^+} \frac{|x-9|}{x-9}$$

3.	0/1 points			LarCalc9 1.4.018.MI.	[1335315]

Find the limit (if it exists). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 9} f(x), \text{ where } f(x) = \begin{cases} x^2 - 6x + 5 & \text{if } x < 9 \\ -x^2 + 6x + 59 & \text{if } x \ge 9 \end{cases}$$

$\underset{x\to 9}{\lim} f(x)$	where j	()	_ ($-x^{2} +$	-6x + 59	if

4. 0/2 points LarCalc9 1.4.035. [1243553]

Consider the following.

$$f(x) = \frac{9}{x}$$

Find the *x*-value at which *f* is not continuous. Is the discontinuity removable? (Enter NONE in any unused answer blanks.)

; ---Select---

5. 0/4 points LarCalc9 1.4.039. [1196794]

Consider the following.

$$f(x) = \frac{4}{1 - x^2}$$

Find the x-values at which f is not continuous. Which of the discontinuities are removable? (Enter your answers from smallest to largest. Enter NONE in any unused answer blanks.)

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6. 0/4 points

LarCalc9 1.4.044.MI. [1335275]

Consider the following.

$$f\left(x\right) = \frac{x}{x^2 - 7}$$

Find the x-values at which f is not continuous. Which of the discontinuities are removable? (Enter your answers from smallest to largest. Enter NONE in any unused answer blanks.)

; ---Select---

; ---Select---

7. 0/4 points

LarCalc9 1.4.048. [1196563]

Consider the following.

$$f(x) = \frac{x-5}{x^2 + 3x - 40}$$

Find the x-values at which f is not continuous. Which of the discontinuities are removable? (Enter your answers from smallest to largest. Enter NONE in any unused answer blanks.)

; ---Select---

; ---Select---

8. 0/2 points

LarCalc9 1.4.054.MI. [1385876]

Consider the following.

$$f(x) = \begin{cases} -5x, & x \le 2\\ x^2 - 8x + 5, & x > 2 \end{cases}$$

Find the x-value at which f is not continuous. Is the discontinuity removable? (Enter NONE in any unused answer blanks.)

x =

; ---Select---

9. 0/1 points

LarCalc9 1.4.063. [1404233]

Find the constant *a* such that the function is continuous on the entire real line.

$$f(x) = \begin{cases} 5x^2, & x \ge 1\\ ax - 6, & x < 1 \end{cases}$$

a =

10. 0/1 points

LarCalc9 1.4.066. [1245626]

Find the constant a such that the function is continuous on the entire real line.

$$g(x) = \begin{cases} \frac{2\sin x}{x} & \text{if } x < 0\\ a - 7x & \text{if } x \ge 0 \end{cases}$$

a =

Assignment Previewer

11.

LarCalc9 1.4.067. [1083763]

Find the constants a and b such that the function is continuous on the entire real line.

$$f(x) = \begin{cases} 7, & x \le -3 \\ ax + b, & -3 < x < 4 \\ -7, & x \ge 4 \end{cases}$$

0/2 points

12. 0/1 points

LarCalc9 1.4.068. [1083817]

Consider the following.

$$g(x) = \begin{cases} \frac{x^2 - a^2}{x - a} & \text{if } x \neq a \\ 6 & \text{if } x = a \end{cases}$$

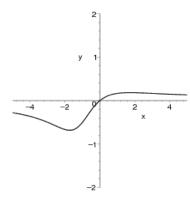
Find the constant \boldsymbol{a} such that the function is continuous on the entire real line.

13. 0/1 points

LarCalc9 1.4.077. [1083781]

Describe the interval on which the function below is continuous.

$$f(x) = \frac{x}{x^2 + 2x + 3}$$

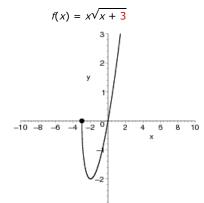


- [2, ∞)
- (-∞, 2)
- **(2, 3)**
- [2, 3)
- (-∞, ∞)

14. 0/1 points

LarCalc9 1.4.078. [1083795]

Describe the interval on which the function below is continuous.



- [-3, ∞)
- [3, ∞)
- (3, ∞)
- ◎ (-∞, ∞)
- (-3, ∞)

15. 0/1 points

LarCalc9 1.4.091. [1083813]

Verify that the Intermediate Value Theorem applies to the indicated interval and find the value of c guaranteed by the theorem

$$f(x) = x^2 + 2x + 1$$
, [0, 5], $f(c) = 16$

16. 0/2 points

LarCalc9 1.4.115. [1196721]

Find all values of c such that f is continuous on $(-\infty, \infty)$.

$$f(x) = \left\{ \begin{array}{ll} \mathbf{5} - x^2, & x \leq c \\ x, & x > c \end{array} \right.$$

c = (smaller value)

c = (larger value)

Assignment Details