MATH 141 HW 03 (6284394)

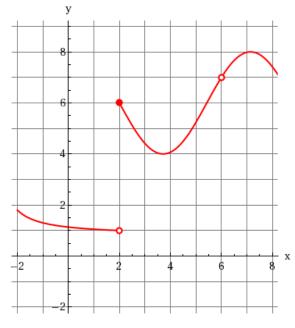
Due: Wed Sep 10 2014 11:59 PM EDT

Question

 $\left|1\right|2\left|3\right|4\left|5\right|6\left|7\right|8\left|9\right|10\left|11\right|12\left|13\right|14\left|15\right|16\left|17\right|18\left|19\right|20\left|21\right|22\left|23\right|24\left|25\right|26\left|27\right|28\left|29\right|$

This question has several parts that must be completed sequentially. If you skip a part of the question, you will not receive any points for the skipped part, and you will not be able to come back to the skipped part.

Use the given graph of f to state the value of each quantity, if it exists.



Part (a)

$$\lim_{x\to 2^-} f(x)$$

Part (b)

$$\lim_{x\to 2^+} f(x)$$

Part (c)

$$\lim_{x\to 2} f(x)$$

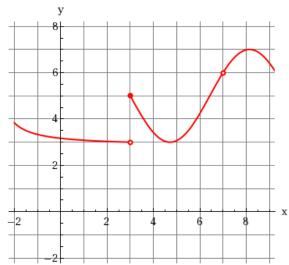
Part (d)

$$\lim_{x\to 6} f(x)$$

Part (e)

2. Question Details

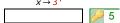
Use the given graph of f to state the value of each quantity, if it exists. (If it does not exist, enter NONE.)



(a) $\lim_{x \to 3^{-}} f(x)$

χ , ς	
	<i>>></i> 3

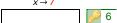
(b) $\lim_{x\to 3^+} f(x)$



(c) $\lim_{x \to 3} f(x)$



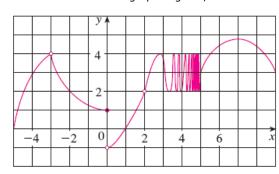
(d) $\lim_{x \to 7} f(x)$



(e) f(7)

NONE

For the function h whose graph is given, state the value of each quantity, if it exists. (If it does not exist, enter NONE.)

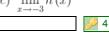


(a)	$_{ m lim}$	h	(x)	
. ,	$x\rightarrow -3^-$, ,	

	$x \rightarrow -3^-$	
		P
4		

$$(b)\ \lim_{x\to -3^+}h\left(x\right)$$

$$(c) \lim_{x \to -3} h(x)$$

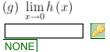




$$(e) \lim_{x \to 0^{-}} h(x)$$

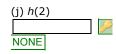




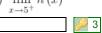




$$(i) \lim_{x \to 2} h(x)$$



$$(k) \lim_{x \to 5^+} h(x)$$





NONEL	

4. Question Details SCalcET6 2.2.026.MI.SA. [1569984]

This question has several parts that must be completed sequentially. If you skip a part of the question, you will not receive any points for the skipped part, and you will not be able to come back to the skipped part.

Tutorial Exercise

Determine the infinite limit.

$$\lim_{x \to -7^{-}} \frac{x+8}{x+7}$$

5. Question Details SCalcET6 2.2.026.MI. [1387171]

Determine the infinite limit.

$$\lim_{x \to -8^{-}} \frac{x+9}{x+8}$$



Determine the infinite limit.

$$\lim_{x \to -7^+} \frac{x + 8}{x + 7}$$

7. Question Details

SCalcET6 2.2.027. [1816778]

Determine the infinite limit.

$$\lim_{x \to 5} \frac{6 - x}{(x - 5)^2}$$

- () ()
- _ -m

8. Question Details SCalcET6 2.2.028. [1817244]

Determine the infinite limit.

$$\lim_{x \to 3^{+}} \frac{e^{x}}{(x-3)^{3}}$$

- () () ()
- __~

9. Question Details SCalcET6 2.2.032. [679801]

Determine the infinite limit.

$$\lim_{x \to 4^+} \frac{x^2 - 4x}{x^2 - 8x + 16}$$

- -∞

10. Question Details SCalcET6 2.3.003. [679800]

Evaluate the limit using the appropriate Limit Law(s). (If it does not exist, enter NONE.)

$$\lim_{x \to 1} \left(2x^4 + 4x^2 - x + 5 \right)$$





Evaluate the limit using the appropriate Limit Law(s). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 1} \frac{2x^2 + 3}{x^2 + 4x - 3}$$

12. Question Details SCalcET6 2.3.005. [1816054]

Evaluate the limit using the appropriate Limit Law(s). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 8} \left(3 + \sqrt[3]{x} \right) \left(1 - 6x^2 + x^3 \right)$$



13. Question Details SCalcET6 2.3.006. [1817400]

Evaluate the limit using the appropriate Limit Law(s). (If an answer does not exist, enter DNE.)

$$\lim_{t \to -1} (t^2 + 1)^2 (t + 3)^5$$



14. Question Details SCalcET6 2.3.007. [1817152]

Evaluate the limit using the appropriate Limit Law(s). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 1} \left(\frac{1 + 3x}{1 + 5x^2 + 2x^4} \right)^{\frac{1}{2}}$$

15. Question Details SCalcET6 2.3.008. [1816398]

Evaluate the limit using the appropriate Limit Law(s). (If an answer does not exist, enter DNE.)

$$\lim_{u\to -4}\sqrt{u^4+2u+8}$$



16. Question Details SCalcET6 2.3.009. [1816147]

Evaluate the limit using the appropriate Limit Law(s). (If an answer does not exist, enter DNE.)

$$\lim_{x \to 1^{-}} \sqrt{1 - x^2}$$



17. Question Details SCalcET6 2.3.011. [679856]

Evaluate the limit, if it exists. (If it does not exist, enter NONE).

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



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

$$\lim_{x \to -6} \frac{x^2 + 7x + 6}{x^2 + 5x - 6}$$

Question Details

SCalcET6 2.3.014.MI.SA. [1569656]

This question has several parts that must be completed sequentially. If you skip a part of the question, you will not receive any points for the skipped part, and you will not be able to come back to the skipped part.

......

Tutorial Exercise

Evaluate the limit, if it exists. (If it does not exist, enter NONE).

$$\lim_{x \to 12} \frac{x^2 - 12x}{x^2 - 11x - 12}$$

20. Question Details

SCalcET6 2.3.014.MI. [1817190]

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

$$\lim_{x \to 5} \frac{x^2 - 5x}{x^2 - 4x - 5}$$

21. Question Details

SCalcET6 2.3.013. [679741]

Evaluate the limit, if it exists. (If it does not exist, enter NONE).

$$\lim_{x \to 1} \frac{x^2 - x + 2}{x - 1}$$

100
-

22. Question Details

SCalcET6 2.3.015. [1817479]

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

$$\lim_{t \to -9} \frac{t^2 - 81}{2t^2 + 19t + 9}$$

NONE

<i>></i> 18/17

23. Question Details

SCalcET6 2.3.016. [657087]

Evaluate the limit, if it exists. (If it does not exist, enter NONE.)

$$\lim_{x \to -1} \frac{x^2 - 9x}{x^2 - 8x - 9}$$



24.	Question	Detail

SCalcET6 2.3.017. [679718]

Evaluate the limit, if it exists. (If it does not exist, enter NONE).

$$\lim_{h \to 0} \frac{(1+h)^2 - 1}{h}$$

25. Question Details

SCalcET6 2.3.021. [1816571]

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

$$\lim_{t \to 4} \frac{4 - t}{2 - \sqrt{t}}$$

<i>></i> 4

26. Question Details

SCalcET6 2.3.022. [1359823]

Evaluate the limit, if it exists. (If it does not exist, enter NONE.)

$$\lim_{h \to 0} \frac{\sqrt{1+h} - 1}{h}$$



P	1/2

27. Question Details

SCalcET6 2.3.023. [679804]

Evaluate the limit, if it exists. (If it does not exist, enter NONE).

$$\lim_{x \to 22} \frac{\sqrt{x+3} - 5}{x-22}$$





28. Question Details

SCalcET6 2.3.027. [1816772]

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

$$\lim_{x \to 9} \frac{3 - \sqrt{x}}{9x - x^2}$$



29. Question Details

SCalcET6 2.3.030. [1816542]

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

$$\lim_{x \to -4} \frac{\sqrt{x^2 + 9} - 5}{x + 4}$$



Assignment Details

Name (AID): MATH 141 HW 03 (6284394)

Submissions Allowed: 100 Category: Homework

Code:

Locked: Yes

Author: Blanco-Silva, Francisco (blanco@math.sc.edu)

Last Saved: Sep 5, 2014 10:30 PM EDT

Feedback Settings

Before due date Question Score Assignment Score Publish Essay Scores Question Part Score

Mark

Permission: **Protected**Randomization: **Person**Which graded: **Last**

Response Save Work After due date Question Score Assignment Score Publish Essay Scores Key

Solution Mark

Add Practice Button

Question Part Score

Help/Hints Response