Question

1 2 3 4 5 6 7 8 9 10

Description

Please read carefully,

- This exam has a running clock.
- You have one attempt at each question.
- Once you submit your answer for a question, you cannot change your answer.
- If the time runs out on you, your exam will be submitted automatically including the questions you answered but did not submit.

Instructions

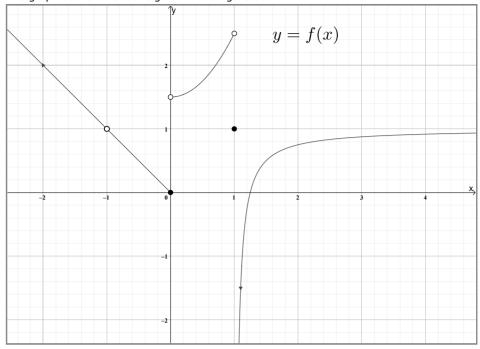
Before starting the exam:

Take a deep breath, and relax.

During the exam:

- The student may not use his textbook, course notes, and calculator or receive help from anyone or any other outside source.
- The student must complete the questions within the time frame allotted for the exam.
- The student must not stop the session and then return to it.
 This is especially important in the online environment where the system will "time-out" and not allow the student to reenter the exam site.
- Open Microsoft Team with camera using your mobile and keep it showing you clearly during the whole exam.
 Disabling the camera, means zero in the exam.
- You can leave during the last ten minutes of the exam; NOT BEFORE THAT.

The graph of the function is given in the figure below.



Which of the following is not true

- \bigcirc f has a vertical asymptote $_{X=1}$
- \bigcirc The limit of f as x approach 0 exists
- O f has an infinite discontinuity at x=1
- \bigcirc f has a horizontal asymptote y=1
- \bigcirc f has a jump discontinuity at x=0

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2. • Question Details

T201.MATH101.EXAM1.09 [4814057]

The equation $2^{x} = \frac{10}{x}$ has a root in the interval

- O [3,4]
- O [2,3]
- O [1,2]
- O [-2,-1]
- $\bigcirc \qquad [-1,1]$

×

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3.	(+)	Ouestion	Details

T201.MATH101.EXAM1.03.v2 [4814410]

If

$$f(x) = \begin{cases} a-1 & \text{if } x < 5 \\ x-a & \text{if } 5 \le x \le 6 \\ b-x^2 & \text{if } x > 6 \end{cases}$$

is continuous at x=5 and at x=6, then a=

4. • Question Details

T201.MATH101.EXAM1.05.v2 [4814402]

The function $y=f(x)=\frac{e^{-x}(x^2+x-2)}{x^2-1}$ has ---Select--- \checkmark one vertical asymptote(s) and ---Select--- \checkmark one horizontal asymptote(s).

5. • Question Details

T201.MATH101.EXAM1.01 [4814042]

Given the limit $\lim_{x\to 1} (1-9x) = -8$, the largest value of δ which satisfies the definition of limit, when $\varepsilon = 0.09$, is

- 0.63 0.09 0.9 2.7 0 0.01
- 6. Question Details

T201.MATH101.EXAM1.10 [4814059]

If $g(x) = \frac{76}{6}x^3 + \ln x$ is the derivative of f(x), then $\lim_{x \to 0} \frac{f(1+x) - f(1)}{x} = \boxed{ } 76$

7. • Question Details

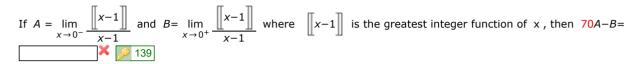
T201.MATH101.EXAM1.06 [4814046]

If
$$\lim_{x \to 5} \frac{f(x-5)+x-1}{x-5} = 15$$
, then $\lim_{x \to 0} f(x) = \frac{1}{x} = 15$.

A particle is moving along a straight line with equation of motion $s=f(t)=100+\frac{1}{t+1}$, where s is measured in meters and t in seconds. Find the velocity of the particle when t=4. (If the answer is a fraction, write it as a fraction in the simplest form).

9. • Question Details

T201.MATH101.EXAM1.04 [4814044]



10. • Question Details

T201.MATH101.EXAM1.07 [4814049]

Find the value of the limit if it exists. If it is $\pm \infty$, write $\pm \infty$, and if does not exist, just write DNE.

$$\lim_{x \to \infty} \left(10 + \frac{1}{x+2} e^{\sin x} \right) =$$

Assignment Details

Name (AID): MATH101 - Online Assessment 1 (17710075)

Submissions Allowed: 1
Category: Exam

Code: Locked: **Yes**

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