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| 1. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 6 | |  | b. | –6 | |  | c. | 24 | |  | d. | –24 | |  | e. | 0 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 2. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | 2.3.15 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.84 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 3. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 75 | |  | b. | –5 | |  | c. | –75 | |  | d. | 5 | |  | e. | 45 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.18 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.84 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 4. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.19 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.84 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 5. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | 0 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | 2.3.21 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.84 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 6. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. | 0 | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.22 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.84 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 7. Find the lmit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.27 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.85 - Evaluate the limit of the function | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 8. Let and . Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 12 | |  | b. | 4 | |  | c. | 8 | |  | d. | –16 | |  | e. | 16 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 9. Let and . Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 123 | |  | b. | 25 | |  | c. | 529 | |  | d. | 4 | |  | e. | 129 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 10. Let and . Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 11. Let and . Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 12. Suppose that and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 0 | |  | b. | 13 | |  | c. | 1 | |  | d. | 27 | |  | e. | 182 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.37b | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.87 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 13. Suppose that and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 12 | |  | b. | 3 | |  | c. | –21 | |  | d. | –9 | |  | e. | 108 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.37c | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.87 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 14. Suppose that and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 36 | |  | b. |  | |  | c. | –36 | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 15. Suppose that and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –6 | |  | b. | –2 | |  | c. | 24 | |  | d. | –10 | |  | e. | 0 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.38b | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.87 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 16. Suppose that . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –8 | |  | b. | –125 | |  | c. | –2 | |  | d. | 0 | |  | e. | –15 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.39a | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.87 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 17. Suppose that . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –2 | |  | b. | –24 | |  | c. | 24 | |  | d. | –12*с* | |  | e. | –12 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.39c | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.87 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 18. Find the following limit (if it exists). Write a simpler function that agrees with the given function at all but one point.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 20 | |  | b. | –32 | |  | c. | 32 | |  | d. | –20 | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 19. Find the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. | –28 | |  | d. | –7 | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 20. Find the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 8 | |  | b. | 1 | |  | c. | 0 | |  | d. |  | |  | e. | Limit does not exist. |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.57 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.89 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 21. Find the limit (if it exists).  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 22. Determine the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 2 | |  | b. | 1 | |  | c. | 6 | |  | d. | 0 | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.68 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.89 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 23. Determine the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 8 | |  | b. | 1 | |  | c. | 0 | |  | d. | 2 | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.69 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.89 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 24. Find where .  ​   |  |  |  | | --- | --- | --- | |  | a. | 0 | |  | b. | 4 | |  | c. | –4 | |  | d. | 0 | |  | e. | Limit does not exist. |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.91 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.90 - Evaluate the limit of a difference quotient | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |

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| 25. Determine the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 1 | |  | b. | 0 | |  | c. | 2 | |  | d. | ∞ | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 2.3.71 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CETF.LAED.11.89 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *NOTES:* | Section 2.3 | | *DATE CREATED:* | 7/11/2017 8:25 AM | | *DATE MODIFIED:* | 7/11/2017 8:25 AM | |