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| 1. ​Find the limit.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ​405 | |  | b. | ​–180 | |  | c. | ​450 | |  | d. | ​–450 | |  | e. | ​0 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 2. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC066 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 3. Find the limit. Round your answer to the whole number, if necessary.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 3 | |  | b. | –5 | |  | c. | –3 | |  | d. | 5 | |  | e. | 2 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC066 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 4. ​Let  and . Find the limit.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | ​100 | |  | b. | ​–27 | |  | c. | ​106 | |  | d. | ​1,000 | |  | e. | ​–8 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 5. ​Let  and . Find the limit.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | ​ | |  | b. | ​ | |  | c. | ​ | |  | d. | ​ | |  | e. | ​ |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 6. ​Let  and . Find the limits.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ​ | |  | b. | ​ | |  | c. | ​ | |  | d. | ​ | |  | e. | ​ |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 7. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC068 - Evaluate the limit of the function | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 8. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | 0 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC066 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 9. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. | 0 | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC066 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 10. Find the limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC066 - Evaluate a limit using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 11. Suppose that  and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 0 | |  | b. | 3 | |  | c. | –17 | |  | d. | –11 | |  | e. | –42 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC069 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 12. Suppose that  and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –11 | |  | b. | –19 | |  | c. | –88 | |  | d. | ​–3 | |  | e. | 0 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC069 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 13. Suppose that  and . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –14 | |  | b. | –4 | |  | c. | 24 | |  | d. | 10 | |  | e. | 140 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC069 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 14. Suppose that ​ and . Find the following limit.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | ​135 | |  | b. | ​ | |  | c. | ​–135 | |  | d. | ​ | |  | e. | ​does not exist |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 15. Suppose that . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 1 | |  | b. | 9 | |  | c. | 5 | |  | d. | 0 | |  | e. | 6 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC069 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 16. Suppose that . Find the following limit.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 3 | |  | b. | 30 | |  | c. | –30 | |  | d. |  | |  | e. | –10 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC069 - Evaluate the limit of a function using properties of limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 17. ​Find the following limit (if it exists). Write a simpler function that agrees with the given function at all but one point.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | ​6 | |  | b. | ​22 | |  | c. | ​–22 | |  | d. | ​–6 | |  | e. | ​does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 18. ​Find the limit (if it exists).  ​    ​   |  |  |  | | --- | --- | --- | |  | a. | ​ | |  | b. | ​ | |  | c. | ​20 | |  | d. | ​5 | |  | e. | ​ |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 19. Find the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 2 | |  | b. | 1 | |  | c. | 0 | |  | d. |  | |  | e. | Limit does not exist |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC071 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 20. ​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:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 21. Determine the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –1 | |  | b. | –8 | |  | c. | 3 | |  | d. | –4 | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC071 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 22. Determine the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 7 | |  | b. | 1 | |  | c. | 0 | |  | d. | 2 | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC071 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 23. Determine the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 0 | |  | b. | 1 | |  | c. | 2 | |  | d. |  | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC071 - Evaluate the limit of a function analytically | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |

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| 24. Find where .  ​   |  |  |  | | --- | --- | --- | |  | a. | 1 | |  | b. | 2 | |  | c. | –2 | |  | d. | 0 | |  | e. | Limit does not exist |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.3 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC072 - Evaluate the limit of a difference quotient | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:53 AM | | *DATE MODIFIED:* | 1/11/2017 9:53 AM | |