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| 1. Use the graph as shown to determine the following limits, and discuss the continuity of the function at .  ​  (i)  (ii)  (iii)  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 1, 1, 2, not continuous | |  | b. | 2, 2, 2, continuous | |  | c. | 4, 4, 4, not continuous | |  | d. | 2, 2, 2, not continuous | |  | e. | 1, 1, 2, continuous |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC073 - Estimate a limit and points of discontinuity from a graph | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 2. Use the graph as shown to determine the following limits, and discuss the continuity of the function at .  ​  (i)  (ii)  (iii)  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 2, 2, 2, continuous | |  | b. | 1, 1, 2, not continuous | |  | c. | 2, 2, 2, not continuous | |  | d. | –3, –3, –3, continuous | |  | e. | 1, 1, 2, continuous |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC073 - Estimate a limit and points of discontinuity from a graph | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 3. Use the graph to determine the following limits, and discuss the continuity of the function at .  ​  (i)  (ii)  (iii)  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 2, –2, does not exist, not continuous | |  | b. | 2, 0, does not exist, not continuous | |  | c. | 0, 2, 0, not continuous | |  | d. | –3, 0, does not exist, not continuous | |  | e. | ​0, 2, 0, continuous |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC073 - Estimate a limit and points of discontinuity from a graph | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 4. Find the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. | 0 | |  | c. | Limit does not exist. | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC074 - Evaluate one-sided limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 5. Find the limit (if it exists).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 0 | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | Limit does not exist. |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC074 - Evaluate one-sided limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 6. Find the limit (if it exists).  ​  , where  ​   |  |  |  | | --- | --- | --- | |  | a. | Limit does not exist. | |  | b. | 0 | |  | c. | 2 | |  | d. | 3 | |  | e. | 6 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC074 - Evaluate one-sided limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 7. Find the limit (if it exists). Note that  represents the greatest integer function.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 18 | |  | b. | –17 | |  | c. | 17 | |  | d. | –18 | |  | e. | does not exist |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC074 - Evaluate one-sided limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 8. Find the limit (if it exists). Note that  represents the greatest integer function.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 9 | |  | b. | Limit does not exist. | |  | c. | 8 | |  | d. | 0 | |  | e. | 7 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC074 - Evaluate one-sided limits | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 9. Discuss the continuity of the function .  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | is discontinuous at . | |  | b. | is discontinuous at . | |  | c. | is discontinuous at . | |  | d. | is continuous for all real . | |  | e. | is continuous at . |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC075 - Identify the discontinuities of a function if any exist | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 10. Find the *x*-values (if any) at which the function  is not continuous. Which of the discontinuities are removable?  ​   |  |  |  | | --- | --- | --- | |  | a. | , removable | |  | b. | , removable | |  | c. | , not removable | |  | d. | continuous everywhere | |  | e. | , not removable |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC076 - Identify the removable discontinuities of a function | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 11. Find the *x-*values (if any) at which  is not continuous.  ​   |  |  |  | | --- | --- | --- | |  | a. | is not continuous at  and  has a removable discontinuity at . | |  | b. | is not continuous at  and both the discontinuities are nonremovable. | |  | c. | is not continuous at  and  has a removable discontinuity at . | |  | d. | is not continuous at  and  has a removable discontinuity at . | |  | e. | is continuous for all real . |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC076 - Identify the removable discontinuities of a function | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 12. Find the *x*-values (if any) at which the function  is not continuous. Which of the discontinuities are removable?  ​   |  |  |  | | --- | --- | --- | |  | a. | discontinuous everywhere 000 | |  | b. | 1 and - , removable | |  | c. | 1 and - , not removable | |  | d. | continuous everywhere 000 | |  | e. | 0, removable |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC076 - Identify the removable discontinuities of a function | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 13. Find the *x*-values (if any) at which the function  is not continuous. Which of the discontinuities are removable?  ​   |  |  |  | | --- | --- | --- | |  | a. | no points of discontinuity | |  | b. | (not removable),  (removable) | |  | c. | (removable),  (not removable) | |  | d. | no points of continuity | |  | e. | (not removable),  (not removable) |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC076 - Identify the removable discontinuities of a function | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 14. Find the *x-*values (if any) at which  is not continuous.  ​   |  |  |  | | --- | --- | --- | |  | a. | is not continuous at  and the discontinuity is nonremovable. | |  | b. | is not continuous at  and the discontinuity is removable. | |  | c. | is continuous for all real . | |  | d. | is not continuous at  and the discontinuity is removable. | |  | e. | is not continuous at  and  is a removable discontinuity. |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC076 - Identify the removable discontinuities of a function | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 15. Find the constant *a* such that the function  ​  ​  is continuous on the entire real line.  ​   |  |  |  | | --- | --- | --- | |  | a. | 1 | |  | b. | –11 | |  | c. | 11 | |  | d. | 13 | |  | e. | –13 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC077 - Identify the value of a parameter to ensure a function is continuous | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 16. Find the constants *a* and *b* such that the function  ​  ​  is continuous on the entire real line.  ​   |  |  |  | | --- | --- | --- | |  | a. | , | |  | b. | , | |  | c. | , | |  | d. | , | |  | e. | , |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC077 - Identify the value of a parameter to ensure a function is continuous | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 17. Find the value of *c* guaranteed by the Intermediate Value Theorem.  ​  , ,  ​   |  |  |  | | --- | --- | --- | |  | a. | 1 | |  | b. | 5 | |  | c. | 7 | |  | d. | 2 | |  | e. | 6 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC078 - Identify the value of c guaranteed by the Intermediate Value Theorem | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 18. Find the value of *c* guaranteed by the Intermediate Value Theorem.  ​  , ,  ​   |  |  |  | | --- | --- | --- | |  | a. | 9 | |  | b. | 2 | |  | c. | 1 | |  | d. | 7 | |  | e. | 8 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC078 - Identify the value of c guaranteed by the Intermediate Value Theorem | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 19. A long distance phone service charges $0.55 for the first 8 minutes and $0.05 for each additional minute or fraction thereof. Use the greatest integer function to write the cost *C* of a call in terms of time *t* (in minutes).  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC038 - Create functions in applications | | *OTHER:* | Application | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |

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| 20. Find all values of *c* such that  is continuous on .  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. | , | |  | e. | , |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | Section 1.4 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *LEARNING OBJECTIVES:* | CALC077 - Identify the value of a parameter to ensure a function is continuous | | *OTHER:* | Skill | | *DATE CREATED:* | 1/11/2017 9:51 AM | | *DATE MODIFIED:* | 1/11/2017 9:51 AM | |