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| 1. Identify the following function.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | Constant function | |  | b. | Absolute value function | |  | c. | Square root function | |  | d. | Squaring function | |  | e. | Identity function |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.1e | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 3:10 AM | |

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| 2. Select the linear function such that it has the indicated function values.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.11a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 3:40 AM | |

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| 3. Select the linear function such that it has the indicated function values.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.14a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 10/24/2014 6:16 AM | |

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| 4. Select the linear function such that it has the indicated function values.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *f*(*x*) = –*x* | |  | b. | *f*(*x*) = 2 | |  | c. | *f*(*x*) = –2 | |  | d. | *f*(*x*) = 4 | |  | e. | *f*(*x*) = *x* |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.15a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:54 AM | |

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| 5. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.19 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 4:10 AM | |

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| 6. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.20 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 9:32 AM | |

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| 7. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.21 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 9:35 AM | |

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| 8. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. |  | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.23 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 4:49 AM | |

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| 9. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.24 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 5:02 AM | |

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| 10. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.25 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 10/24/2014 7:28 AM | |

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| 11. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.27 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 5:33 AM | |

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| 12. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.28 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 5:41 AM | |

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| 13. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.29 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 6:11 AM | |

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| 14. Select the correct graph for the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.30 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 9:45 AM | |

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| 15. Select the correct graph for the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.31 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 9:48 AM | |

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| 16. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.32 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 6:43 AM | |

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| 17. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.34 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 7:00 AM | |

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| 18. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.35 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/26/2014 7:38 AM | |

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| 19. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.36 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 9:53 AM | |

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| 20. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.37 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 9:58 AM | |

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| 21. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.38 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:00 AM | |

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| 22. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.39 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/29/2014 1:01 AM | |

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| 23. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.40 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/29/2014 1:09 AM | |

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| 24. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.41 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:02 AM | |

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| 25. Select the correct graph of the given function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.42 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/29/2014 1:32 AM | |

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| 26. Evaluate the function *f*(*x*) = [[*x*]] for *x* = 9.2.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*f*(*x*) = 2 | |  | b. | ​*f*(*x*) = 10 | |  | c. | ​*f*(*x*) = 9 | |  | d. | ​*f*(*x*) = –9 | |  | e. | ​*f*(*x*) = 11 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.43a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:04 AM | |

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| 27. Evaluate the function *h*(*x*) = 2[[*x*]] for *x* = –4.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*h*(*x*) = –8 | |  | b. | ​*h*(*x*) = –6 | |  | c. | ​​*h*(*x*) = 4 | |  | d. | ​*h*(*x*) = –4 | |  | e. | ​*h*(*x*) = –2 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.44a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:05 AM | |

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| 28. Evaluate the function *h*(*x*) = [[*x* + 9]] for *x* = –4.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*h*(*x*)  = 13 | |  | b. | ​*h*(*x*) = 5 | |  | c. | ​*h*(*x*)  = 9 | |  | d. | ​*h*(*x*)  = –13 | |  | e. | ​*h*(*x*) = –5 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.45 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:05 AM | |

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| 29. Evaluate the function *f*(*x*) = 2[[*x*]] + 7 for *x* = –7.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​ *f*(*x*) = –21 | |  | b. | ​ *f*(*x*) = 2 | |  | c. | ​ *f*(*x*) = –2 | |  | d. | ​ *f*(*x*) = –7 | |  | e. | ​ *f*(*x*) = 7 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.46 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:06 AM | |

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| 30. Evaluate the function  *f*(*x*) = [[3*x* + 1]] for *x* = 4.  ​   |  |  |  | | --- | --- | --- | |  | a. | *f*(*x*) = –4 | |  | b. | ​ *f*(*x*) = 4 | |  | c. | ​ *f*(*x*) = 11 | |  | d. | ​ *f*(*x*) = 13 | |  | e. | ​ *f*(*x*) = 12 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.47 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:06 AM | |

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| 31. Evaluate the function  for *x* = 6.  ​   |  |  |  | | --- | --- | --- | |  | a. | *​h*(*x*) = 9 | |  | b. | ​*h*(*x*)  = 3 | |  | c. | ​*h*(*x*)  = –12 | |  | d. | *​h*(*x*) = 12 | |  | e. | ​*h*(*x*)  = –3 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:07 AM | |

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| 32. Evaluate the function *f*(*x*) = 3[[3*x* – 1]] + 5 for *x* = 6.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*f*(*x*) = 51 | |  | b. | ​*f*(*x*) = –6 | |  | c. | ​*f*(*x*) = 56 | |  | d. | ​*f*(*x*) = 6 | |  | e. | ​*f*(*x*) = 46 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.49 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:07 AM | |

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| 33. Select the graph of the function  *f*(*x*) = 3[[*x*]].  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:09 AM | |

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| 34. Select the graph of the function:  *f*(*x*) = [[*x*]] – 4.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.53 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:12 AM | |

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| 35. Select the graph of the function:  *f*(*x*) = [[*x* + 3]].  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.55 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:13 AM | |

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| 36. Select the graph of the function *f*(*x*) = [[*x* – 4]].  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.56 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:16 AM | |

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| 37. Select the graph of the function.     |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.57 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/29/2014 7:05 AM | |

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| 38. Select the graph of the function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.62 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/29/2014 7:18 AM | |

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| 39. Select the graph of the function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.63 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/29/2014 7:55 AM | |

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| 40. Select the graph of the function.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.64 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 9/30/2014 8:03 AM | |

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| 41. The cost of sending an overnight package from Los Angeles to Miami is $26.30 for a package weighing up to but not including 1 pound and $4.00 for each additional pound or portion of a pound. A model for the total cost *C* (in dollars) of sending the package is  ​  *С* = 26.30 + 4.00[[*x*]], *x* > 0, where *x* is the weight in pounds.  ​  Select the graph of the model.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.69a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:21 AM | |

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| 42. The cost of sending an overnight package from Los Angeles to Miami is $26.40 for a package weighing up to but not including 1 pound and $3.25 for each additional pound or portion of a pound. A model for the total cost *C* (in dollars) of sending the package is  ​  *С* = 26.40 + 3.25[[*x*]] , *x* > 0, where *x* is the weight in pounds.  ​  Determine the cost of sending a package that weighs 5.25 pounds.  ​   |  |  |  | | --- | --- | --- | |  | a. | $45.65 | |  | b. | ​$44.65 | |  | c. | ​$43.65 | |  | d. | ​$46.65 | |  | e. | ​$42.65 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.69b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:21 AM | |

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| 43. The cost of sending an overnight package from Los Angeles to Miami is $25.00 for a package weighing up to but not including 1 pound and $3.50 for each additional pound or portion of a pound. Use the greatest integer function to create a model for the cost *C* of overnight delivery of a package weighing *x* pounds, *x* > 0.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*C* = 25.00 – 3.50[[*x*]], *x* > 0 | |  | b. | ​*C* = 25.00 + 3.50[[*x*]], *x* > 0 | |  | c. | ​*C* = -25.00 + 3.50[[*x*]], *x* > 0 | |  | d. | ​*С* = –25.00 – 3.50 [[*x*]], *x* > 0 | |  | e. | ​C = 25.00[[*x*]] + 3.50, *x* > 0 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.70a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:23 AM | |

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| 44. A mechanic is paid $13.00 per hour for regular time and time-and-a-half  for overtime. The weekly wage function is given by  ​  ​  where *h* is the number of hours worked in a week.  ​  Evaluate *W*(30), *W*(50).  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*W*(30) = 410, *W*(50) = 750 | |  | b. | ​*W*(30) = 430, *W*(50) = 770 | |  | c. | ​*W*(30) = 400, *W*(50) = 740 | |  | d. | *​W*(30) = 390, *W*(50) = 730 | |  | e. | ​*W*(30) = 420, *W*(50) = 760 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.71a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 10/1/2014 3:48 AM | |

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| 45. The table shows the monthly revenue *y* (in thousands of dollars) of a landscaping business for each month of the year 2008, with  *x* = 1 representing January.  ​   |  |  | | --- | --- | | *x* | *y* | | 1 | 6.0 | | 2 | 6.1 | | 3 | 7.1 | | 4 | 9.2 | | 5 | 12.3 | | 6 | 16.4 | | 7 | 12.2 | | 8 | 10.2 | | 9 | 8.3 | | 10 | 6.3 | | 11 | 4.3 | | 12 | 2.4 |   ​  A mathematical model that represents these data is:  ​  ​  Find *f*(1) and *f*(12).  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. | ​ | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.73b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:25 AM | |

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| 46. ​Write the linear function f such that it has the indicated values.  ​*f*(–1) = –5, *f*(–9) = –6  ​   |  |  |  | | --- | --- | --- | |  | a. | *​y* =  *x+* | |  | b. | ​*y* = 8 *x+*3 | |  | c. | *​y* =  *x* | |  | d. | *​y* =  *x* | |  | e. | *​y* =  *x* |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.12 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 10/1/2014 4:54 AM | | *DATE MODIFIED:* | 10/27/2014 2:22 AM | |

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| 47. Evaluate the function for the indicated values.  *f*(*x*) = 5[[*x* + 3]]  - 5  (i) *f*(3)      (ii) *f*(–63.30)     (iii) *f*()  ​   |  |  |  | | --- | --- | --- | |  | a. | (i) 25      (ii) –305      (iii) 15 | |  | b. | ​(i) 25      (ii) –305      (iii) 10 | |  | c. | ​(i) 26      (ii) –310      (iii) 15 | |  | d. | ​(i) 26      (ii) –310      (iii) 10 | |  | e. | ​(i) 25      (ii) –310      (iii) 10 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.46 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:37 AM | |

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| 48. Which function does the graph represent?   |  |  |  | | --- | --- | --- | |  | a. | ​*g*(*x*) = [[3*x*]] | |  | b. | ​*g*(*x*) = [[*x+*3]] | |  | c. | *​g*(*x*) = 3[[*x*]] | |  | d. | ​*g*(*x*) = [[–4*x*]] | |  | e. | *​g*(*x*) = [[*x*–3]] |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.55 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/12/2015 10:42 AM | |

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| 49. Which graph represents the function?  ​    ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 35 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 10/1/2014 7:29 AM | | *DATE MODIFIED:* | 5/15/2015 2:26 AM | |

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| 50. Which graph represents the function?  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 2.4.58 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:18 PM | | *DATE MODIFIED:* | 5/15/2015 2:31 AM | |