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| 1. Find the exact values of the three trigonometric functions sine, cosine, tangent of the real number *t.*  ​    ​  *a* = ,  *b* =  ​   |  |  |  | | --- | --- | --- | |  | a. | sin *t* =  cos *t* =  tan *t* = | |  | b. | ​sin *t* =  cos *t* =  tan *t* = | |  | c. | ​sin *t* =  cos *t* =  tan *t* = | |  | d. | sin *t* =  cos *t* =  tan *t* = | |  | e. | ​sin *t* =  cos *t* =  tan *t* = |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.5 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/18/2014 5:50 AM | |

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| 2. Find the exact values of the three trigonometric functions sine, cosine, tangent of the real number *t.*  ​    ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ​  ​ | |  | b. | ​  ​ | |  | c. | ​ | |  | d. | ​  ​ | |  | e. | ​  ​ |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.6 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 11/18/2014 5:52 AM | | *DATE MODIFIED:* | 11/18/2014 6:37 AM | |

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| 3. Find the exact values of the three trigonometric functions sine, cosine, tangent of the real number *t.*  ​    ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ​  ​ | |  | b. | ​  ​ | |  | c. | ​ | |  | d. | ​  ​ | |  | e. | ​  ​ |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.7 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 11/18/2014 6:42 AM | | *DATE MODIFIED:* | 11/18/2014 11:21 PM | |

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| 4. Find the exact values of the three trigonometric functions sine, cosine, tangent of the real number *t.*  ​    ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ​  ​ | |  | b. | ​  ​ | |  | c. | ​ | |  | d. | ​  ​ | |  | e. | ​  ​ |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.8 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 11/18/2014 11:22 PM | | *DATE MODIFIED:* | 11/18/2014 11:37 PM | |

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| 5. Find the point (*x*, *y*) on the unit circle that corresponds to the real number *t*. (Round your answer to one decimal place.)  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | corresponds to the point . |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.9 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/18/2014 2:19 AM | |

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| 6. Find the point (*x*, *y*) on the unit circle that corresponds to the real number *t*.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | corresponds to the point . |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.10 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/18/2014 2:28 AM | |

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| 7. Find the point (*x*, *y*) on the unit circle that corresponds to the real number *t*.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | corresponds to the point . |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.12 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/18/2014 11:54 PM | |

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| 8. Find the point (*x*, *y*) on the unit circle that corresponds to the real number *t*.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | corresponds to the point . |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.13 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/18/2014 3:52 AM | |

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| 9. Find the point (*x*, *y*) on the unit circle that corresponds to the real number *t*.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | corresponds to the point . |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.15 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/18/2014 3:47 AM | |

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| 10. Evaluate (if possible) the sine, cosine, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point .  ​ | |  | c. | corresponds to the point .  ​ | |  | d. | corresponds to the point .  ​ | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.17 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 5/15/2015 5:38 AM | |

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| 11. Evaluate (if possible) the sine, cosine, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.25 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 12:10 AM | |

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| 12. Evaluate (if possible) the sine, cosine, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.26 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 12:24 AM | |

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| 13. Evaluate (if possible) the sine, cosine, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.27 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 12:58 AM | |

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| 14. Evaluate (if possible) the sine, cosine, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point .  ​  ​ | |  | c. | corresponds to the point .  ​  ​ | |  | d. | corresponds to the point .  ​  ​ | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.32 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 1:14 AM | |

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| 15. Evaluate (if possible) the sine, cosine, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point .  ​  ​ | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.33 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 1:31 AM | |

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| 16. Evaluate (if possible) the sine, cosec, and tangent of the real number.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | corresponds to the point . | |  | b. | corresponds to the point . | |  | c. | corresponds to the point . | |  | d. | corresponds to the point . | |  | e. | Not possible |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.34 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 1:46 AM | |

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| 17. Evaluate the trigonometric function using its period as an aid.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.35 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 2:07 AM | |

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| 18. Evaluate the trigonometric function using its period as an aid.  ​  cos 8*π*  ​   |  |  |  | | --- | --- | --- | |  | a. | cos 8*π =* –8 | |  | b. | cos 8*π =* 0 | |  | c. | cos 8*π =* 8 | |  | d. | cos 8*π =* ∞ | |  | e. | cos 8*π =* 1 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.36 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 2:12 AM | |

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| 19. Evaluate the trigonometric function using its period as an aid.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.37 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 2:21 AM | |

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| 20. Evaluate the trigonometric function using its period as an aid.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.38 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 2:28 AM | |

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| 21. Evaluate the trigonometric function using its period as an aid.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.39 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 2:34 AM | |

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| 22. Evaluate the trigonometric function using its period as an aid.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.40 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 3:15 AM | |

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| 23. Use the value of the trigonometric function to find  the .  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.43a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 3:19 AM | |

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| 24. Use the value of the trigonometric function to find .  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.43b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 3:24 AM | |

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| 25. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.44a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 3:32 AM | |

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| 26. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.44b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 4:04 AM | |

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| 27. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.45a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 4:09 AM | |

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| 28. Use the value of the trigonometric function to find .  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.45b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 4:20 AM | |

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| 29. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.46a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 5:09 AM | |

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| 30. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.46b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 6:14 AM | |

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| 31. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.47a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 6:33 AM | |

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| 32. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.47b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 11:24 PM | |

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| 33. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.48a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 11:28 PM | |

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| 34. Use the value of the trigonometric function to find .  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.48b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 11:33 PM | |

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| 35. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | – 0.5000 | |  | b. | 0.6000 | |  | c. | 0.4000 | |  | d. | 0.7000 | |  | e. | 0.5000 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.49 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 11:41 PM | |

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| 36. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 0.3142 | |  | b. | 0.6142 | |  | c. | – 0.4142 | |  | d. | 0.4142 | |  | e. | 0.5142 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.50 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/19/2014 11:44 PM | |

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| 37. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.51 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 12:21 AM | |

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| 38. Find  the value of given trigonometric function. Round your answer to four decimal places..  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 12:33 AM | |

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| 39. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.53 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 12:39 AM | |

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| 40. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.54 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 12:57 AM | |

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| 41. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.55 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 1:10 AM | |

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| 42. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.56 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 1:24 AM | |

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| 43. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.57 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 1:46 AM | |

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| 44. Find  the value of given trigonometric function. Round your answer to four decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.58 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 1:56 AM | |

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| 45. The displacement from equilibrium of an oscillating weight suspended by a spring is given by  , where  *y* is the  displacement (in feet) and *t* is the time (in seconds). Find  the displacements when . (Round your answers to two decimal places.)  ​   |  |  |  | | --- | --- | --- | |  | a. | foot | |  | b. | foot | |  | c. | foot | |  | d. | foot | |  | e. | foot |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.59a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 5/15/2015 5:29 AM | |

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| 46. The displacement from equilibrium of an oscillating weight suspended by a spring is given by  , where  *y* is the  displacement (in feet) and *t* is the time (in seconds). Find  the displacements when .  ​   |  |  |  | | --- | --- | --- | |  | a. | foot | |  | b. | foot | |  | c. | foot | |  | d. | foot | |  | e. | foot |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.59b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 2:14 AM | |

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| 47. The displacement from equilibrium of an oscillating weight suspended by a spring and subject to the damping effect of friction is given by , where  *y* is the  displacement (in feet) and *t* is the time (in seconds). Complete the following table.(Round your answer to four decimal places.)  ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *t* |  |  |  |  |  | | *y* |  |  |  |  |  |   ​   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | a. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *t* |  |  |  |  |  | | *y* |  |  |  |  |  | | |  | b. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *t* |  |  |  |  |  | | *y* |  |  |  |  |  |   ​ | |  | c. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *t* |  |  |  |  |  | | *y* |  |  |  |  |  | | |  | d. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *t* |  |  |  |  |  | | *y* |  |  |  |  |  | | |  | e. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *t* |  |  |  |  |  | | *y* |  |  |  |  |  |   ​ |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.60b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 4:52 AM | |

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| 48. Find the point  on the unit circle that corresponds to the real number . Use your results to evaluate .   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.11 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:22 PM | | *DATE MODIFIED:* | 11/20/2014 5:05 AM | |

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| 49. Find the point on the unit circle that corresponds to the real number . Use your results to evaluate .   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.13 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:23 PM | | *DATE MODIFIED:* | 11/20/2014 5:16 AM | |

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| 50. The displacement from equilibrium of an oscillating weight suspended by a spring is given by , where *y* is the displacement in centimeters and *t* is the time in seconds. Find the displacement when , rounding answer to four decimal places.   |  |  |  | | --- | --- | --- | |  | a. | –3.7018 cm | |  | b. | –6.4350 cm | |  | c. | 23.8825 cm | |  | d. | 2.9298 cm | |  | e. | –1.6362 cm |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 4.2.59 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:23 PM | | *DATE MODIFIED:* | 11/20/2014 5:25 AM | |