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| 1. Rationalize the numerator of the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 2/19/2016 5:00 AM | |

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| 2. Rationalize the denominator of the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 3. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 4. Simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 5. Find the real roots of the equation by factoring.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 6. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 7. Rationalize the numerator of the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 8. Rationalize the numerator of the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 9. Rationalize the denominator of the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 10. Perform the indicated operations and simplify the expression.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 11. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 12. Perform the indicated operations and simplify the expression.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 13. Simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 14. Solve the equation by using the quadratic formula.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | and | |  | b. | and | |  | c. | and | |  | d. | and | |  | e. | and |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 15. Find the real roots of the equation by factoring.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 3 and -10 | |  | b. | 4 and -8 | |  | c. | 4 and -7 | |  | d. | 5 and -7 | |  | e. | 5 and -8 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:34 AM | | *DATE MODIFIED:* | 12/25/2015 9:34 AM | |

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| 16. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 17. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 18. Factor the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 19. Factor the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 3/18/2016 12:19 PM | |

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| 20. Factor out the greatest common factor from the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 21. Factor out the greatest common factor from the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 2/19/2016 6:17 AM | |

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| 22. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 23. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 24. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 25. Perform the indicated operations and simplify the expression.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 26. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 27. Simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 28. Perform the indicated operations and simplify the expression.  ​  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 29. Rationalize the denominator of the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 30. Rationalize the numerator of the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 31. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | False | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 32. Rationalize the numerator of the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 33. Rationalize the numerator of the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 34. Rationalize the denominator of the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 35. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 36. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 37. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 38. Simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 39. Solve the equation by using the quadratic formula.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 40. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 41. Factor the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 42. Factor the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 43. Factor out the greatest common factor from the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 44. Factor out the greatest common factor from the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 45. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 46. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 47. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 48. Perform the indicated operations and simplify the expression.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 49. Find the real roots of the equation by factoring.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |

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| 50. Find the real roots of the equation by factoring.  ​   |  |  | | --- | --- | | *ANSWER:* |  | | *POINTS:* | 1 | | *QUESTION TYPE:* | Subjective Short Answer | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 12/25/2015 9:35 AM | | *DATE MODIFIED:* | 12/25/2015 9:35 AM | |