Algebra 2

Review for Unit 3 Quiz #2

Simplify.

1.  2. 

Simplify. Write the answer in standard form.

3.  4.  5. 

Solve by factoring.

6. x2 – 40 = 3x 7. x2 – 81 = 0 8. 3x2 + 4x = 4

Solve by square root method.

9. x2 – 1 = 19 10. 2x2 + 21 = 7 11. (x – 3)2 + 4 = 10

Solve by quadratic formula.

12. x2 + 4x + 1 = 0 13. 2x2 – x + 5 = 0

Match which method would be best for each quadratic equation then solve. You may only use each method once.

a. factoring

b. square root

c. quadratic formula

14. 2x2 + 9 = 33 15. x2  = 5 – 4x 16. x2 + 2 = 5x

Find the discriminant. State the number and type of solutions.

17, 2x2 + 7x = 10x + 5 18. 4x2 – 12x + 9 = 0

Match the quadratic function with its discriminant value.

a. zero

b. positive

c. negative

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