Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# Unit 10 Test Review

# Polynomials

1. What are the 3 ways to solve a quadratic equation?

a.

b.

c.

2. What is standard form of a quadratic?

3. When we factor we \_\_\_\_\_\_\_\_\_\_ backwards.

4. How many square roots do *positive real numbers* have?

5. How many square roots do *negative real numbers* have?

6. How many square roots does *zero* have?

**Solve the factored equation.**

7. 8.

9. 10.

**Solve the equation by factoring.**

11. 12.

13. 14.

**Solve the equation using square roots.**

15. 16.

17. 18.

19. What is the *quadratic formula*?

**Solve using the Quadratic Formula.**

20. 21.

22. 23.

**Add or subtract the following polynomials.**

24.  25. 

**Multiply the following polynomials**

26.  27. 

28. Simplify using positive exponents:

A. B. C.

**State the inverse operation:**

29. Addition \_\_\_\_\_\_\_\_\_\_\_\_

30. Multiplication \_\_\_\_\_\_\_\_\_\_\_\_\_

31. FOIL stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_

32. The slope of a horizontal line is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

33. The slope of a vertical line is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_