Algebra 2 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 1 Test MASTERY Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_

Directions: Show work for every problem and circle your answer. Remember to use your classmates and your teacher to confirm your answers---this should be a perfect score!!

1. What is not a type of real numbers?

A. Whole B. Integer C. Imaginary D. Rational

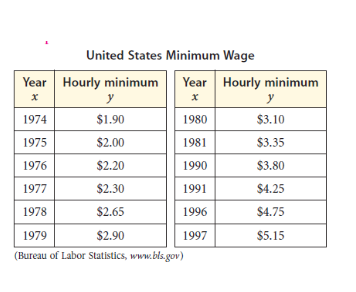
2. What is equivalent to the following rational power?

A. B. C. D.

3. Simplify: 

A. B. C. D.

4. Use the following table of information (use x = 0 for year 1974):

What is the linear regression equation?

A.

B.

C.

D.

5. Create an equation that is perpendicular to the given line and goes through the given point:

y = 4x + 2 (16, – 8)

A. B. C. D.

6. Solve the following inequality:

A. B. C. D.

7. Solve the following absolute value equation:

A. *x* = 4 or – 4 B. *x* = 8 or – 8 C. *x* = 6 or – 6 D. *x* = – 8

8. Solve the following absolute value inequality:

9. Graph your answer from #8 on a number line:

10. Create a concept map for Properties of Addition and Multiplication: