

## Solving Exponential Equations with Logarithms

Class: \_\_\_\_\_ Period: \_\_\_\_\_

Solve each equation. Round your answers to the nearest hundredth.

1.  $2^x = 10$

2.  $10^x = 11$

3.  $4^x = 100$

4.  $100^x = 10$

5.  $2^x = 100$

6.  $10^x = 11$

7.  $4^x = 100$

8.  $20^x = 100$

9.  $10 = 10^{2x} = 100$

10.  $2^{x^2} = 2 + 10$

11.  $10^{x^2 - 10} = 10 + 100$

12.  $10^{x^2 - 10} = 10 + 100$