

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. $2^{x-1} = 8 \ln 8$

11. $10^{x-1} = 10 \ln 10$

12. $10^{x-1} = 10 \ln 10$