Solving Basic Exponential Equations

Directions: Solve each exponential equation. Show all work. No calculators.

1. Solve $2^x = 32$.

2. Solve $3^x = 81$.

3. Solve $5^x = 125$.

4. Solve $4^x = 64$.

5. Solve $10^x = 1000$.

6. Solve $2^x = \frac{1}{16}$.

7. Solve $3^x = \frac{1}{27}$.

8. Solve $5^x = \frac{1}{125}$.

9. Solve $4^x = \frac{1}{64}$.

10. Solve $8^x = 512$.

11. Solve $9^x = \frac{1}{81}$.

12. Solve $6^x = 216$.