

Using Logarithms to Solve $B^x = A$

Solve for x , rounding to the nearest tenth.

Example: $5^x = 30$

$$\log 5^x = \log 30$$

$$x \cdot \log 5 = \log 30$$

$$x = \frac{\log 30}{\log 5} = 2.1113 = 2.1$$

1. $9^x = 27$

2. $7^x = 343$

3. $10^x = 0$

4. $6^x = 127$

5. $12^x = 303$

6. $13^x = 2839$

7. $2^x = 90$

8. $4^x = 512$

9. $3^x = 5.2$

10. $11^x = 153$