

Solving Exponential Equations with Logarithms (#41)

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

1. $3^b = 17$

2. $12^r = 13$

3. $9^n = 49$

4. $16^v = 67$

5. $3^a = 69$

6. $6^r = 51$

7. $5 \cdot 18^{6x} = 26$

8. $e^{x-1} - 5 = 5$

9. $9^{n+10} + 3 = 81$

10. $11^{n-8} - 5 = 54$

11. $16^{n-7} + 5 = 24$

12. $20^{-6n} + 6 = 55$

Answers to
Back :

13. 0.258

14. -0.391

15. 0.807

16. -0.850

17. -0.434

18. -0.535

19. -1.088

20. 0.451

$$13. 5 \cdot 6^{3m} = 20$$

$$14. 8^{-5a} - 5 = 53$$

$$15. 3.4e^{2-2n} - 9 = -4$$

$$16. -6e^{8n+8} - 3 = -23$$

$$17. -e^{-3.9n-1} - 1 = -3$$

$$18. -2e^{7v+5} - 10 = -17$$

$$19. -3e^{7a+9} + 6 = -6$$

$$20. -3e^{9x-1} + 6 = -58$$

Answers to Front:

1. 2.579

2. 1.032

3. 1.771

4. 1.517

5. 3.854

6. 2.194

7. 0.095

8. 3.303

9. -8.017

10. 9.701

11. 8.062

12. -0.217