

Chapter 4 Review - Calculator

Solve each equation. #1-4 Use the One-to-One Property. #5- 10 Use Ln of both sides. #11-20 Use the Definition of Logs to solve and remember to check your solution. For all problems, give both exact and decimal approximate answers when applicable.

1) $5^{-3p} = 25$

2) $16^{-3n-1} = 64$

3) $6^{3k} = 216$

4) $6^{3n} = 36$

5) $19^p = 13$

6) $5^x = 60$

7) $10^{-6x} = 99$

8) $11^{-8m} = 4$

9) $11^{-9x} + 4 = 9$

10) $14^{y-10} - 10 = 78$

$$11) \log_3 x - \log_3 8 = 2$$

$$12) \log_8 x + \log_8 9 = \log_8 72$$

$$13) \log_3 5 - \log_3 x = 3$$

$$14) \log_4 5 + \log_4 x = \log_4 39$$

$$15) \log_2 9 + \log_2 x^2 = 2$$

$$16) \log_2 (x + 2) - \log_2 x = 1$$

$$17) \log_7 (x + 9) - \log_7 3 = \log_7 44$$

$$18) \log_5 (x + 2) + \log_5 10 = 4$$

$$19) \log_6 x + \log_6 (x + 1) = 1$$

$$20) \log_4 2x^2 - \log_4 2 = 5$$