

Algebra 2
Solving Exponential and Logarithmic Functions
5 Points Each
Total Points: 50

Please show all work that leads to your answer and round answers to the nearest hundredth. Be sure to check your answers.

1. $7^X = 124$

2. $6^{x-3} = 52$

3. $10^{x+4} = 1000$

4. $\log_5 x = 3$

5. $\log_2(x-3) = 5$

6. $3\log_6(x+1) = 9$

7. $\log_5 2x - 5 = -4$

8. $3(5)^{2x-3} = 6$

9. $2^{x-4} + 10 = 22$

10. $\log_3 3 + \log_3 x = 5$