

11-5 Logarithms 3

Name: _____

Time Start: _____ Finish: _____ Total Time = _____

Solve the following equations for x. Round your answer to the nearest hundredth.

1. $3^x = 10$

2. $2^x = 10$

3. $9^x = 22$

4. $12^x = 6$

5. $36^x = 6$

6. $1^x = 10$

7. $24^x = 48$

8. $16^x = 4$

9. $10^x = 154$

10. $4^x = 408$

11. $6^x = 6000$

12. $10^x = 2000$

13. $2.5^x = 4.8$

14. $1.6^x = 40$

15. $3.5^x = 720$

16. $4^x = 1000$

17. $6^x = 5$

18. $10^x = 20$

19. $5.5^x = 1000$

20. $1.1^x = 100$

21. $9.5^x = 1$

22. $8^x = 188$

23. $16^x = 5000$

24. $20^x = 2000$

25. $1.3^x = 88$

26. $.6^x = 77$

27. $3.5^x = 720$

28. $10 + 2^x = 82$

29. $1 - 2^x = 100$

30. $100 - 2^x = 1$