Solving exponential equations with logs

Name _____ Date _____

1. $7^x = 4$ _____

2. $3^x = 34$ _____

3. $5 \cdot 3^x = 220$ _____

4. $e^x = 58$ _____

5. $e^x = 14$ _____

6. $4 \cdot 7^x = 92$ _____

7. $8 \cdot 7^x = 480$ _____

8. $5 \cdot 2^x = 45$ _____

9. $6 \cdot 7^x = 36$ _____

10. $e^{3x} = 19$ _____

11. $2 \cdot 5^x = 36$ _____

12. $3^{x-5} = 7$ _____

13. $9 \cdot 5^x = 18$ _____

14. $e^{2x} = 15$ _____

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15. $5^{x+2} = 37$ _____

16. $2^{x} = 22$ _____

17. $3^{x} = 32$ _____

18. $e^{x} = 50$ _____

19. $e^{x} = 41$ _____

20. $5^{x} = 31$ _____

21. $3^{x-3} = 53$ _____

22. $2^{x-5} = 29$ _____

23. $3 \cdot 2^{x} = 135$ _____

24. $2^{x-4} = 11$ _____

25. $4 \cdot 3^{x} = 216$ _____

26. $e^{2x} = 26$ _____

27. $3 \cdot 7^{x} = 36$ _____

28. $2^{x} = 46$ _____

29. $5^{x+4} = 51$ _____

30. $2^{x-2} = 41$ _____