

Solve the equation. Round to the nearest ten-thousandth.

1. $2^x = 243$

2. $7^x = 12$

3. $5^{2x} = 20$

4. $8^{x+1} = 3$

5. $4^{3n} = 5$

6. $15^{2n-3} = 245$

7. $4^x - 5 = 12$

8. $4^{n-2} = 3$

9. $10^n = 3$

10. $10^{3y} = 5$

11. $10^{k-12} = 20$

12. $5^x = 4$

13. $2^{4x} = 8$

14. $3^{x+5} = 15$

15. $10^x = 182$