

Solving Exponential Equations

Name _____ Period _____

Solve for x

1. $2^x = 8$

2. $3^x = 9$

3. $4^x = 64$

4. $5^x = \frac{1}{25}$

5. $6^x = \frac{1}{216}$

6. $5^x = 125$

7. $243 = 3^x$

8. $2^x + 4 = 68$

9. $6^x - 1 = 35$

10. $2^x + \frac{1}{16} = \frac{2}{16}$

11. $7^{3x} > 343$

12. $2^{2x+1} \leq 32$

13. $5^{2x-1} < \frac{1}{125}$

14. $3^{2x} \geq 9$