

LogarithmsSolve for x :

1. $\log_2 x = 3$

2. $\log_7 49 = x$

3. $\log_{64} x = \frac{1}{3}$

4. $\log_2 \frac{1}{32} = x$

5. $\log_x 27 = 3$

6. $\log_3 x = 4$

7. $\log_x 3 = \frac{1}{3}$

8. $8^{2x} = 32$

9. $4^{2x-2} = 2^{3x+1}$

10. $9^{3x-4} = 27^{x+1}$

11. $7^{2x-2} = 5^{3x+1}$

12. $3^{x+1} = 2^{2x-3}$

13. $5^{3x-2} = 7^{x+2}$

14. $6^{5x-2} = 3^{7x+3}$

15. $7^{x+1} = 5^{2x-3}$