

1. Rewrite as a log: $k^3 = 216$	2. Rewrite as a log: $h^m = t$
3. Rewrite as a log: $\left(\frac{2}{3}\right)^4 = \frac{16}{81}$	4. Rewrite as a log: $5^{x-2} = w$
5. Rewrite as an exponential $\log_5 x = 3$	6. Rewrite as an exponential $\log_3 \left(\frac{1}{27}\right) = x$
7. Rewrite as an exponential $\log_5 625 = x$	8. Rewrite as an exponential $\log_3 p = x$
9. Expand $\log_3 4x^2y^5$	10. Expand $\ln \frac{a\sqrt{b}}{c^2}$
11. Expand $\log_2 \frac{5b^2}{a^4b^3}$	12. Expand $\log_5 x^3 \sqrt{x-2}$
13. Condense $\ln 5 + 2 \ln x + 3 \ln y$	14. Condense $\log_5 a + 5 \log_5 m - \log_5 n - 3 \log_5 p$

15. Condense $3\ln r - \ln 4 - \ln t - 4\ln w$	16. Condense $\log_3 7 + \frac{1}{2}\log_3(x-1) - 3\log_3 z$
17. Solve: $3^{x+1} + 4 = 85$	18. Solve: $2^{x-3} = \frac{1}{32}$
19. Solve $8(6^x) = 384$	20. Solve $\log_7(8x-12) = \log_7(3x-18)$
21. Solve $5e^{2x} - 7 = 28$	22. Solve $9(5^{x-2}) - 8 = 892$
23. Solve $4 + \ln(3x) = 9$	24. Solve $2\log_4(x-3) + 12 = 16$
25. Solve $\log_4 x + \log_4(x-6) = 2$	26. Solve $125^{3x-1} = 5^x$