

1. Expand the following

a. $\log 6x^3yz$

$$\log 6 + 3\log x + \log y + \log z$$

b. $\log_8 \frac{64x^2}{y}$

$$\log_8 64 + \log_8 x^2 - \log_8 y$$
$$\log_8 64 - 2\log_8 x - \log_8 y$$

c. $\ln \sqrt[4]{7x^3}$

$$\ln (7x^3)^{\frac{1}{4}}$$
$$\frac{1}{4}(\ln 7 + 3\ln x)$$
$$\frac{1}{4}\ln 7 + \frac{3}{4}\ln x$$

d. $\log \frac{x^5 y^{-2}}{2y}$

$$\log x^5 + \log y^{-2} - \log 2 - \log y$$
$$5\log x - 2\log y - \log 2 - \log y$$

2. Condense the following

a. $3\log_6 4 + \log_6 2$

$$\log_6 4^3 + 2$$
$$\log_6 64 + 2$$
$$\log_6 128$$

b. $2\log 5 - 2\log x + \log y$

$$\log \frac{5^2 \cdot y}{x^2}$$
$$\log \frac{25y}{x^2}$$

c. $2\ln(x-3) - \ln 6 - 3\ln(x+2)$

$$\ln \frac{(x-3)^2}{6(x+2)^3}$$

3. Evaluate the following

a. $\log_5 16$

$$\frac{\log 16}{\log 5} = 1.72$$

b. $\log_{\frac{1}{25}} 625$

$$\frac{\log 625}{\log (\frac{1}{25})} = -2$$

c. $\ln(-e)$

no solution

d. $\log 32^{-10}$

$$-32 \log 32$$
$$-32 \cdot (1.50)$$
$$-48.16$$

MA2A5.b, c Solve polynomial, exponential, and logarithmic equations and inequalities analytically, graphically, and using appropriate technology.

4. Solve the following

a. $-5e^x + 9 = 6$

$$-5e^x = -3$$
$$e^x = \frac{-3}{-5} = 0.6$$
$$\ln e^x = \ln 0.6$$

b. $\frac{1}{4}(4)^{2x} + 1 = 5$

$$\frac{1}{4}(4)^{2x} = 4 \cdot 4$$
$$\frac{4^{2x}}{4} = \frac{16}{4}$$
$$4^{2x} = 4$$
$$2x = 1$$
$$x = \frac{1}{2}$$

c. $\frac{1}{2}(10^{x+6}) - 5 = 14$

$$\frac{1}{2}(10^{x+6}) = 19 \cdot 2$$
$$10^{x+6} = 38$$
$$\log 10^{x+6} = \log 38$$
$$x+6 = \log 38$$
$$x+6 = 1.58$$
$$x = -4.42$$

d. $7^{3x-4} + 3 = 18$

$$7^{3x-4} = 15$$
$$\log 7^{3x-4} = \log 15$$
$$(3x-4)\log 7 = \log 15$$
$$3x-4 = \frac{\log 15}{\log 7}$$
$$3x-4 = 1.39$$
$$3x = 5.39$$
$$x = 1.80$$

5. Solve the following, also

a. $\frac{1}{6}\log_7(1-2x) = 12$

$$\log_7(1-2x) = 72$$
$$7^{72} = 1-2x$$
$$117649 = 1-2x$$
$$117648 = -2x$$
$$x = -58824$$

b. $\frac{1}{15} + 2\log_2(x+4) = \frac{31}{15}$

$$2\log_2(x+4) = \frac{31}{15} - \frac{1}{15}$$
$$2\log_2(x+4) = \frac{30}{15}$$
$$2\log_2(x+4) = 2$$
$$\log_2(x+4) = 1$$
$$2^1 = x+4$$
$$2 = x+4$$
$$x = -2$$

c. $\log_7(x-4) = 2$

$$7^2 = x-4$$
$$49 = x-4$$
$$49+4 = x$$
$$x = 53$$

Practice With Exponential And Inequalities Answer Key

David Baud



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