

# LOGARITHMIC & EXPONENTIAL EQUATIONS Review!

## LOGARITHMIC EQUATIONS

1.  $\log_3(x+13) = \log_3(3-x)$

$$x+13 = 3-x$$

$$2x = -10$$

$$\boxed{x = \{-5\}}$$

2.  $\log_2(n^2+13) = \log_2(n-1) + \log_2(n+3)$

$$\log_2(n^2+13) = \log_2(n-1)(n+3)$$

$$n^2+13 = n^2+2n-3$$

$$16 = 2n$$

$$\boxed{n = \{8\}}$$

3.  $2 \cdot \ln(a+3) = \frac{1}{4} \cdot \ln 16 + \ln(a+7)$

$$\ln(a+3)^2 = \ln 16^{1/4} + \ln(a+7)$$

$$\ln(a^2+6a+9) = \ln(2a+14)$$

$$a^2+6a+9 = 2a+14$$

$$a^2+4a-5 = 0$$

$$(a+5)(a-1) = 0$$

$$a = -5, 1$$

$$\boxed{a = \{1\}}$$

4.  $\log(3c+4) - \log(c-6) = \log(c+6)$

$$\log \frac{3c+4}{c-6} = \log c+6$$

$$\frac{3c+4}{c-6} = c+6$$

$$3c+4 = c^2-36$$

$$0 = c^2-3c-40$$

$$0 = (c-8)(c+5) \quad c = -5, 8$$

$$\boxed{c = \{8\}}$$

5.  $\log_2(5v+23) - 9 = -2$

$$\log_2(5v+23) = 7$$

$$2^7 = 5v+23$$

$$128 = 5v+23$$

$$105 = 5v$$

$$\boxed{v = \{21\}}$$

6.  $\log_4(p+5) - \log_4(p-2) = \frac{1}{2}$

$$\log_4 \frac{p+5}{p-2} = \frac{1}{2}$$

$$16^{1/2} = \frac{p+5}{p-2}$$

$$4 = \frac{p+5}{p-2}$$

$$4p-8 = p+5$$

$$3p = 13$$

$$\boxed{p = \{13/3\}}$$

7.  $\ln(r+1) + 3 \cdot \ln 2 = 7$

$$\ln(r+1) + \ln 2^3 = 7$$

$$\ln_e(8r+8) = 7$$

$$e^7 = 8r+8$$

$$1096.63 = 8r+8$$

$$1088.63 = 8r$$

$$\boxed{r = \{136.08\}}$$

8.  $\frac{1}{3} \cdot \log_9 64 + 2 \cdot \log_9 n = 2$

$$\log_9 64^{1/3} + \log_9 n^2 = 2$$

$$\log_9 4n^2 = 2$$

$$4n^2 = 81$$

$$n^2 = 81/4$$

$$n = -9/2, 9/2$$

$$\boxed{n = \{9/2\}}$$

# Exponential Logs With Logs Answer Key

**Gordon P. Ramsey**



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Schaum's Outline of Mathematical Methods for Business and Economics Edward T. Dowling, 2009-12-18 Confused by the math of business and economics Problem solved Schaum's Outline of Mathematical Methods for Business and Economics reviews the mathematical tools topics and techniques essential for success in business and economics today The theory and solved problem format of each chapter provides concise explanations illustrated by examples plus numerous problems with fully worked out solutions And you don't have to know advanced math beyond what you learned high school The pedagogy enables you to progress at your

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