

LOGARITHMIC & EXPONENTIAL EQUATIONS *Review!*

LOGARITHMIC EQUATIONS

1. $\log_2(x+13) = \log_2(3-x)$

$$x+13 = 3-x$$

$$2x = -10$$

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

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

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

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

$$4n^2 = 81$$

$$n^2 = 81/4$$

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

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

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**Northeastern University (Boston,
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and 4 green arduino uno r3 1 proximity infrared obstacle sensor 4 battery 4 logic state 4
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