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

$$\log_2(n^2 + 13) = \log(n-1)(n+3)$$
$$n^2 + 13 = n^2 + 2n - 3$$
$$16 = 2n$$
$$\boxed{n = \{8\}}$$

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

$$\ln(a+3)^2 = \ln 16^{1/4} + \ln(a+7)$$
$$\ln(a^2 + 6a + 9) = \ln(2a + 14)$$
$$a^2 + 6a + 9 = 2a + 14$$
$$a^2 + 4a - 5 = 0$$
$$(a+5)(a-1) = 0$$
$$a = \cancel{-5}, 1 \qquad \boxed{a = \{1\}}$$

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

$$\log \frac{3c+4}{c-6} = \log c+6$$
$$\frac{3c+4}{c-6} = c+6$$
$$3c+4 = c^2 - 36$$
$$0 = c^2 - 3c - 40$$
$$0 = (c-8)(c+5) \qquad c = \cancel{-5}, 8 \qquad \boxed{c = \{8\}}$$

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. $\log_{16}(p+5) - \log_{16}(p-2) = \frac{1}{2}$

$$\log_{16} \frac{p+5}{p-2} = \frac{1}{2}$$
$$16^{1/2} = \frac{p+5}{p-2}$$
$$4 = \frac{p+5}{p-2}$$
$$4p - 8 = p + 5$$
$$3p = 13 \qquad \boxed{p = \{13/3\}}$$

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

$$\ln(r+1) + \ln 2^3 = 7$$
$$\ln_e(8r + 8) = 7$$
$$e^7 = 8r + 8$$
$$1096.63 = 8r + 8$$
$$1088.63 = 8r \qquad \boxed{r = \{136.08\}}$$

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

$$\log_9 64^{1/3} + \log_9 n^2 = 2$$
$$\log_9 4n^2 = 2$$
$$4n^2 = 81$$
$$n^2 = 81/4$$
$$n = \cancel{-9/2}, 9/2 \qquad \boxed{n = \{9/2\}}$$

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Padhraic Smyth

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