

LOGARITHMIC & EXPONENTIAL EQUATIONS *Review!*

| LOGARITHMIC EQUATIONS | |
|--|--|
| <p>1. $\log_2(x+13) = \log_2(3-x)$</p> $x+13 = 3-x$ $2x = -10$ $x = \{-5\}$ | <p>2. $\log_2(n^2+13) = \log_2(n-1) + \log_2(n+3)$</p> $\log_2(n^2+13) = \log_2(n-1)(n+3)$ $n^2+13 = n^2+2n-3$ $16 = 2n$ $n = \{8\}$ |
| <p>3. $2 \cdot \ln(a+3) = \frac{1}{4} \cdot \ln 16 + \ln(a+7)$</p> $\ln(a+3)^2 = \ln 16^{1/4} + \ln(a+7)$ $\ln(a^2+6a+9) = \ln(2a+14)$ $a^2+6a+9 = 2a+14$ $a^2+4a-5 = 0$ $(a+5)(a-1) = 0$ $a = \{1\}$ | <p>4. $\log(3c+4) - \log(c-6) = \log(c+6)$</p> $\log \frac{3c+4}{c-6} = \log c+6$ $\frac{3c+4}{c-6} = c+6$ $3c+4 = c^2-36$ $0 = c^2-3c-40$ $0 = (c-8)(c+5) \quad c = \{8\}$ |
| <p>5. $\log_2(5v+23) - 9 = -2$</p> $\log_2(5v+23) = 7$ $2^7 = 5v+23$ $128 = 5v+23$ $105 = 5v$ $v = \{21\}$ | <p>6. $\log_4(p+5) - \log_4(p-2) = \frac{1}{2}$</p> $\log_4 \frac{p+5}{p-2} = \frac{1}{2}$ $16^{1/2} = \frac{p+5}{p-2}$ $4 = \frac{p+5}{p-2}$ $4p-8 = p+5$ $3p = 13$ $p = \{13/3\}$ |
| <p>7. $\ln(r+1) + 3 \cdot \ln 2 = 7$</p> $\ln_e(8r+8) = 7$ $e^7 = 8r+8$ $1096.63 = 8r+8$ $1088.63 = 8r$ $r = \{136.08\}$ | <p>8. $\frac{1}{3} \cdot \log_9 64 + 2 \cdot \log_9 n = 2$</p> $\log_9 64^{1/3} + \log_9 n^2 = 2$ $\log_9 4n^2 = 2$ $4n^2 = 81$ $n^2 = 81/4$ $n = \{9/2\}$ |

Solving Exponential And Logarithmic Functions Answers Sheet

Marco Cascella



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Solving Exponential And Logarithmic Functions Answers Sheet Book Review: Unveiling the Power of Words

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