

# LOGARITHMIC & EXPONENTIAL EQUATIONS *Review!*

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

# Exponential And Logarithmic Equations Answer Key

**PT Brinkman**



## **Exponential And Logarithmic Equations Answer Key:**

## **Exponential And Logarithmic Equations Answer Key** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Exponential And Logarithmic Equations Answer Key**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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and even though a hotel with such a sparkling a reputation can easily rest on its laurels a recent stay at the invitation of the

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the champs Élysées guests can stay in one of its 244 rooms and suites admire an extensive collection of artwork and dine at one of its three fine dining restaurants which between them share five michelin stars in the 2017 guide a

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web there are live jazz performances 3 days a week sunday brunch is legendary at georges located in the trendy district galata the hotel is within 5 minutes walk of istiklal avenue the galata tower and the hip karakoy neighborhood the attractions and sights of the historical old city are just 1 2 mi away istanbul airport is 31 mi away

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web lower part of the foramen between the last lumbar and first sacral vertebrae anatomical variations anatomical variations occur frequently in this region making the sacrum the most variable portion of the spine 5 the variation may be attributed to

the dependency of the final sacral morphology to the load related fusion of the bone structure

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web lumbar vertebrae inter body joints and the intervertebral discs zygapophysial joints ligaments of the lumbar spine lumbar lordosis and the vertebral canal sacrum basic biomechanics movements of the lumbar spine lumbar muscles and their fascia nerves of the lumbar spine blood supply of the lumbar spine embryology

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web your lumbar spine is the lower back region of your spinal column or backbone it consists of five bones l1 l5 other structures in or around your lumbar spine are your intervertebral disks spinal cord and nerves muscles tendons and ligaments your lumbar spine supports the weight of your body and allows a wide range of body movements

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