

# Solving Log & Exp Equations Worksheet

2.  $\log_3 (3x-2) = 2$

$$3^2 = 3x-2$$

$$11 = 3x$$

$$x = \frac{11}{3} \checkmark$$

4.  $\log_5 (x^2+x+4) = 2$

$$5^2 = x^2+x+4$$

$$0 = x^2+x-21$$

$$x = \frac{-1 \pm \sqrt{1-4(1)(-21)}}{2}$$

$$x = \frac{-1 \pm \sqrt{85}}{2}$$

$$x = \frac{-1 + \sqrt{85}}{2} \checkmark$$

$$x = \frac{-1 - \sqrt{85}}{2}$$

6.  $-2\log_4 X = \log_4 9$

$$\log_4 x^{-2} = \log_4 9$$

$$x^{-2} = 9$$

$$\frac{1}{x^2} = 9$$

$$9x^2 = 1$$

$$x^2 = \frac{1}{9}$$

$$x = \pm \frac{1}{3} \quad \begin{array}{l} \swarrow \frac{1}{3} \checkmark \\ \searrow \frac{1}{3} \end{array}$$

8.  $3\log_2 X = -\log_2 27$

$$\log_2 x^3 = \log_2 \frac{1}{27}$$

$$x^3 = \frac{1}{27}$$

$$\boxed{x = \frac{1}{3}} \checkmark$$

10.  $2\log_3 (x+4) - \log_3 9 = 2$

$$\log_3 \left( \frac{(x+4)^2}{9} \right) = 2$$

$$9 = \frac{(x+4)^2}{9}$$

$$81 = (x+4)^2$$

$$\pm 9 = x+4$$

$$\boxed{x = 5} \quad x = -13$$

12.  $\log_4 X + \log_4 (x-3) =$

$$\log_4 (x^2-3x) = 1$$

$$x^2-3x = 4$$

$$x^2-3x-4 = 0$$

$$(x-4)(x+1) = 0$$

$$\boxed{x = 4} \quad x = -1$$

# Logarithm Inequalities Answer Key

**Padhraic Smyth**



## **Logarithm Inequalities Answer Key:**

## Decoding **Logarithm Inequalities Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Logarithm Inequalities Answer Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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