

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

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

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

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

$$9x^2 = 1$$

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

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

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

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

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

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

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

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

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Readings in Cognitive Science Allan Collins,Edward E. Smith,2013-10-02 Readings in Cognitive Science A Perspective from Psychology and Artificial Intelligence brings together important studies that fall in the intersection between artificial intelligence and cognitive psychology This book is composed of six chapters and begins with the complex anatomy and physiology of the human brain The next chapters deal with the components of cognitive science such as the semantic memory similarity and analogy and learning These chapters also consider the application of mental models which represent the domain specific knowledge needed to understand a dynamic system or natural physical phenomena The remaining chapters discuss the concept of reasoning problem solving planning vision and imagery This book is of value to psychologists psychiatrists neurologists and researchers who are interested in cognition

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in a niche between the two predominant types of such texts. It could be used as a textbook albeit a streamlined one; it contains exposition on each topic with an introduction, rationale, train of thought, and solved examples with accompanying suggested exercises. It could be used as a solution guide because it contains full written solutions to each of the hundreds of exercises posed inside. But its best position is right in between these two extremes. It is best used as a companion to a traditional text or as a refresher with its conversational tone, its get-right-to-it content structure, and its inclusion of complete solutions to many problems. It is a friendly partner for students who are learning Calculus either in class or via self study. Exercises are structured in three sets to force multiple encounters with each topic. Solved examples in the text are accompanied by You Try It problems which are similar to the solved examples; the students use these to see if they're ready to move forward. Then at the end of the section there are Practice Problems, more problems similar to the You Try It problems but given all at once. Finally, each section has Challenge Problems, these lean to being equally or a bit more difficult than the others, and they allow students to check on what they've mastered. The goal is to keep the students engaged with the text, and so the writing style is very informal with attempts at humor along the way. The target audience is STEM students including those in engineering and meteorology programs.

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with the basic knowledge of what is communication and then we will learn about the optical fiber

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web for creating long haul communication link it is necessary to join one fiber to other fibers permanently for this purpose

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out an electrically signal at the transmission end and change by the optical signal return to an

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solution the optical fiber consists of three main elements 1 transmitter an electric signal is applied to the optical transmitter

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channel receiver block diagram of ofc systems message origin generally message origin is from a transducer that converts a nonelectrical message into an electrical signal

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fiber the transmission media used for the communication of signals from one point to another are copper wires coaxial cables

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