

# Algebra II

## Worksheet 10.1-10.4

Name Key

Date \_\_\_\_\_

Period \_\_\_\_\_

1. a.) Write an exponential function whose graph passes through the points (0, 3) and (-1, 6).  
b.) determine whether the function represents exponential growth or decay.  $y = ab^x$ ,  $3 = ab^0$ ,  $a = 3$ ,  
 $6 = 3b^{-1}$ ,  $b^{-1} = 2$ ,  $(b^{-1})^{-1} = 2^{-1}$ ,  $b = \frac{1}{2}$

2. Simplify  $x^{3\pi} \div x^\pi$

$$x^{3\pi - \pi} = x^{2\pi}$$

3. Solve  $2^{3n-1} \geq \left(\frac{1}{8}\right)^n$

$$2^{3n-1} \geq 2^{-3n}$$

$$3n-1 \geq -3n$$

$$6n \geq 1 \quad n \geq \frac{1}{6}$$

5. Write the equation  $\left(\frac{1}{7}\right)^3 = \frac{1}{343}$  in

logarithmic form.

$$\log_{\frac{1}{7}} \frac{1}{343} = 3$$

4. Solve  $9^{2x-1} = 27^{x+4}$   
 $3^{2(2x-1)} = 3^{3(x+4)}$

$$3^{4x-2} = 3^{3x+12}$$

$$4x-2 = 3x+12$$

6. Write the equation  $\log_4 32 = \frac{5}{2}$  in exponential form.

$$4^{5/2} = 32$$

$$x = 14$$

7. Evaluate  $\log_4 \frac{1}{32} = x$

$$4^x = \frac{1}{32}$$

$$2x = -5$$

$$x = -\frac{5}{2}$$

8. Solve  $\log_{25} \left(\frac{x}{2}\right) = \frac{1}{2}$

$$25^{1/2} = \frac{x}{2}$$

$$5 = \frac{x}{2}$$

$$x = 10$$

9. Solve

$$\log_6(3y-5) \geq \log_6(2y+3)$$

$$3y-5 \geq 2y+3$$

$$-2y+5 \geq -2y+5$$

$$y \geq 8$$

Use  $\log_2 3 \approx 1.5850$  and  $\log_2 5 \approx 2.3219$  to approximate the value of each expression.

10.  $\log_2 \frac{9}{5} = \log_2 9 - \log_2 5$

$$= \log_2 3^2 - \log_2 5$$

$$= 2\log_2 3 - \log_2 5$$

$$= 2(1.5850) - 2.3219 = .8481$$

11.  $\log_2 75 = \log_2 3 \cdot 5^2$

$$= \log_2 3 + 2\log_2 5$$

$$= 1.5850 + 2(2.3219)$$

$$= 6.2288$$

$$75 = 3 \cdot 25 = 3 \cdot 5^2$$

Solve each equation.

12.

$$\log_6 x + \log_6 9 = \log_6 54$$

$$\log_6 x \cdot 9 = \log_6 54$$

$$x \cdot 9 = 54$$

$$x = 6$$

13.

$$\log_3(a+3) + \log_3(a+2) = \log_3 6$$

$$\log_3(a+3)(a+2) = \log_3 6$$

$$(a+3)(a+2) = 6$$

$$a^2 + 5a + 6 = 6$$

$$a^2 + 5a = 0$$

$$a(a+5) = 0$$

$$a = 0$$

14.

$$\log_8(n-3) + \log_8(n+4) = 1$$

$$\log_8(n-3)(n+4) = 1$$

$$\log_8(n^2+n-12) = 1$$

$$8^1 = n^2+n-12, n^2+n-20=0$$

$$(n+5)(n-4) = 0, n = -5, n = 4$$

Use a calculator to evaluate each expression to four decimal places.

15.  $\log 101 = 2.0043$

16.  $\log 2.2 = .3424$

Solve each equation or inequality. Round to four decimal places

17.  $3.5^x = 47.9$

$$\log 3.5^x = \log 47.9$$

$$x \log 3.5 = \log 47.9$$

$$x = \frac{\log 47.9}{\log 3.5} = 3.0885$$

18.  $8^{y+4} > 15$

$$\log 8^{y+4} > \log 15$$

$$(y+4) \log 8 > \log 15$$

$$y+4 > \frac{\log 15}{\log 8}$$

$$y+4 > 1.3023$$

$$y > -2.6977$$

19. Express  $\log_3 7$  in terms of common logarithms. Then approximate its value to four decimal places.

$$\log_3 7 = \frac{\log 7}{\log 3} = 1.7712$$

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**Susan E. F. Chipman**



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Sottolare, Arthur C. Graesser, Xiangen Hu, Andrew Olney, Benjamin Nye, Anna M. Sinatra, 2016-07-15 Design Recommendations for Intelligent Tutoring Systems ITSS explores the impact of intelligent tutoring system design on education and training Specifically this volume examines Domain Modeling The Design Recommendations book series examines tools and methods to reduce the time and skill required to develop Intelligent Tutoring Systems with the goal of improving the Generalized Intelligent Framework for Tutoring GIFT GIFT is a modular service oriented architecture developed to capture simplified authoring techniques promote reuse and standardization of ITSS along with automated instructional techniques and effectiveness evaluation capabilities for adaptive tutoring tools and methods

### **Directory of Distance Learning**

**Opportunities** Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

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United States. Congress. Senate. Committee on Appropriations. Subcommittee on Departments of Labor, Health and Human Services, Education, and Related Agencies, 2002

### **Student Modelling: The Key to Individualized Knowledge-Based Instruction** Jim E. Greer, Gordon I.

McCalla, 2013-06-29 This book is the result of a NATO sponsored workshop entitled Student Modelling The Key to Individualized Knowledge Based Instruction which was held May 4 8 1991 at Ste Adele Quebec Canada The workshop was co directed by Gordon McCalla and Jim Greer of the ARIES Laboratory at the University of Saskatchewan The workshop focused on the problem of student modelling in intelligent tutoring systems An intelligent tutoring system ITS is a computer program that is aimed at providing knowledgeable individualized instruction in a one on one interaction with a learner In order to individualize this interaction the ITS must keep track of many aspects of the learner how much and what he or she has learned to date what learning styles seem to be successful for the student and what seem to be less successful what deeper mental models the student may have motivational and affective dimensions impacting the learner and so on Student modelling is the problem of keeping track of all of these aspects of a learner's learning

*Children's Books in Print, 2007*  
, 2006 [The Oxford Handbook of Cognitive Science](#) Susan E. F. Chipman, 2016-11-10 Cognitive Science is an avowedly multidisciplinary field drawing upon many traditional disciplines or research areas including Linguistics Neuroscience

Philosophy Psychology Anthropology Artificial Intelligence and Education that contribute to our understanding of cognition Just as learning and memory cannot truly prove effective as disconnected studies practical applications of cognitive research such as the improvement of education and human computer interaction require dealing with more complex cognitive phenomena by integrating the methods and insights from multiple traditional disciplines The societal need for such applications has played an important role in the development of cognitive science The Oxford Handbook of Cognitive Science emphasizes the research and theory that is most central to modern cognitive science Sections of the volume address computational theories of human cognitive architecture cognitive functioning such as problem solving and decision making as they have been studied with both experimental methods and formal modeling approaches and cognitive linguistics and the advent of big data Chapters provide concise introductions to the present achievements of cognitive science supplemented by references to suggested reading and additional facets of cognitive science are discussed in the handbook s introductory chapter complementing other key publications to access for further study With contributions from among the best representatives in their fields this volume will appeal as the critical resource for the students in training who determine the future of cognitive science

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