Name: _____ **Unit 8:** Quadratic Equations

Date: _____ Bell: _____ **Homework 10:** Solving Quadratics by The Quadratic Formula

**** This is a 2-page document! ****

Solve each quadratic equation by the quadratic formula. Simplify all irrational solutions.

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

1. $x^2 - 2x - 48 = 0$

$x = \frac{2 \pm \sqrt{(-2)^2 - 4(1)(-48)}}{2(1)}$

$x = \frac{2 \pm \sqrt{4 + 192}}{2}$

$x = \frac{2 \pm \sqrt{196}}{2}$

$x = \frac{2 \pm 14}{2}$ $= \{-6, 8\}$

2. $6x^2 - 15x = 0$

$x = \frac{15 \pm \sqrt{(-15)^2 - 4(6)(0)}}{2(6)}$

$x = \frac{15 \pm \sqrt{225 + 0}}{12}$

$x = \frac{15 \pm 15}{12}$

$x = \frac{30}{12}, \frac{0}{12}$ $x = \{\frac{5}{2}, 0\}$

3. $-x^2 + 8x = 7$

$-x^2 + 8x - 7 = 0$

$x = \frac{-8 \pm \sqrt{8^2 - 4(-1)(-7)}}{2(-1)}$

$x = \frac{-8 \pm \sqrt{64 - 28}}{-2}$

$x = \frac{-8 \pm \sqrt{36}}{-2}$

$x = \frac{-8 \pm 6}{-2}$ $= \{1, 7\}$

4. $x^2 + 4x + 17 = 8 - 2x$

$x^2 + 6x + 9 = 0$

$x = \frac{-6 \pm \sqrt{6^2 - 4(1)(9)}}{2(1)}$

$x = \frac{-6 \pm \sqrt{36 - 36}}{2}$

$x = \frac{-6 \pm \sqrt{0}}{2}$

$x = \frac{-6}{2}$ $= \{-3\}$

5. $4x^2 - 25 = 0$

$x = \frac{0 \pm \sqrt{0^2 - 4(4)(-25)}}{2(4)}$

$x = \frac{0 \pm \sqrt{0 + 400}}{8}$

$x = \frac{\pm \sqrt{400}}{8}$

$x = \frac{\pm 20}{8}$ $= \{\pm \frac{5}{2}\}$

6. $6x^2 + 18x = x - 12$

$6x^2 + 17x + 12 = 0$

$x = \frac{-17 \pm \sqrt{17^2 - 4(6)(12)}}{2(6)}$

$x = \frac{-17 \pm \sqrt{289 - 288}}{12}$

$x = \frac{-17 \pm \sqrt{1}}{12}$

$x = \frac{-17 \pm 1}{12}$ $= \{-\frac{3}{2}, -\frac{4}{3}\}$

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A History of Mathematics Luke Hodgkin,2013-02-21 A History of Mathematics From Mesopotamia to Modernity covers the evolution of mathematics through time and across the major Eastern and Western civilizations It begins in Babylon then describes the trials and tribulations of the Greek mathematicians The important and often neglected influence of both Chinese and Islamic mathematics is covered in detail placing the description of early Western mathematics in a global context The book concludes with modern mathematics covering recent developments such as the advent of the computer chaos theory topology mathematical physics and the solution of Fermat s Last Theorem Containing more than 100 illustrations and figures this text aimed at advanced undergraduates and postgraduates addresses the methods and challenges associated with studying the history of mathematics The reader is introduced to the leading figures in the history of mathematics including Archimedes Ptolemy Qin Jiushao al Kashi al Khwarizmi Galileo Newton Leibniz Helmholtz Hilbert Alan Turing and Andrew Wiles and their fields An extensive bibliography with cross references to key texts will provide invaluable resource to students and exercises with solutions will stretch the more advanced reader *Journal of the Society of Chemical Industry* ,1922 *Creative Computing* ,1985 **A New Key to the Exact Sciences, Or, A New and Practical Theory by which Mathematical Problems Or Algebraic Equations of Almost Every Description Can be Solved with Accuracy** Francis Tillett,1824 **Quantum Chaos Y2k, Proceedings Of Nobel Symposium 116** Sven Aberg,Karl-fredrik Berggren,2001-10-09 Quantum chaos is becoming a very wide field that ranges from experiments to theoretical physics and purely mathematical issues In view of this grand span Nobel Symposium 116 focused on experiments and theory and attempted to encourage interplay between them There was emphasis on the interdisciplinary character of the subject involving a broad range of subjects in physics including condensed matter physics nuclear physics atomic physics and elementary particle physics The physics involved in quantum chaos has much in common with acoustics microwaves optics etc and therefore the symposium also covered aspects of wave chaos in this broader sense The program was structured according to the following areas manifestations of classical chaos in quantum systems transport phenomena quantal spectra in terms of periodic orbits semiclassical and random matrix approaches quantum chaos in interacting systems chaos and tunneling wave dynamic chaos This important book constitutes the proceedings of the symposium **Host Bibliographic Record for Boundwith Item Barcode 30112047793085 and Others** ,1884 **English Mechanic and World of Science** ,1897 *The Encyclopædia Britannica* ,1905 *Anglo-American Encyclopedia* ,1910 *The School World* ,1902 **Engineering** ,1866 **Army and Navy Register** ,1923 Applied Mechanics Reviews ,1975 **The Educational Times and Education Outlook** ,1925 *Educational Times* ,1908 English Mechanic and Mirror of Science and Art ,1886 **Education Outlook** ,1908 United Services and Empire Review ,1860 *Yearbook* National Council of Teachers of Mathematics,1973 **The Electrician** ,1886

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