TEXT: GLENCOE ALGEBRA 2


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| Date <br> Taught | Objective | Standard | Text Section | Section Name | Additional Resources | Suggested Time Frame (Block) | Ch. Time Frame |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Interpret parts of an expression, such as terms, factors, and coefficients. [A.SSE.1a] For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. <br> [F.IF.4] Compare properties of two functions each represented ina different way (algebraically, graphically, numerically in tables, or by verbal descriptions). [F.IF.9] Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with lables and scales. [A.CED.2] Explain why the $x$-coordinates of the points where the graphs of the equations $y=f(x)$ and $y=g(x)$ intersect are the solutions of the equation $f(x)=g(x)$; find the solutions approximately, using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.* [A.REI.11] Use the structure of an expression to identify ways to rewrite it. [A.SSE.2] Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. [F.IF.8] Know there is a complex number $i$ such that $\mathrm{i}^{\wedge} 2=-1$, and every complex number has the form $a+b i$ with $a$ and $b$ real. [N.CN.1] Use the relation $\mathrm{i}^{\wedge} 2=-1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers. [N.CN.2] Solve quadratic equations with real coefficients that have complex solutions. \{N.CN. 3 <br> Find the moduli and quotient of complex numbers] [ $\mathrm{N} . \mathrm{CN} .7]$ Interpret complicated expressions by viewing one or more of their parts as a single entity.[A.SSE.1b] Identify the effect on the graph of replacing $f(x)$ by $f(x)+k, k f(x)$, $f(k x)$, and $f(x+k)$ for specific values of $k$; find the value of $k$ given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them. [F.BF.3] Create equations and inequalities in one variable and use them to solve problems. [A.CED.1] Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. [A.CED.3] | A.SSE.1.a, F.IF. 9 | 4.1 | Graphing Quadratic <br> Functions |  | 1/2 | 7 Days |
|  |  | A.CED.2, A.REI. 11 | 4.2 | Solving Quadratic Equations by Graphing |  | 1/2 |  |
|  |  | Review | 0.3 | Factoring Polynomials |  | 1/2 |  |
|  |  | A.SSE.2, F.IF.8.a | 4.3 | Solving Quadratic Equations by Factoring |  | 1/2 |  |
|  |  | Review |  | Simplifying Square Roots |  | 1/2 |  |
|  |  | N.CN.1, N.CN.2, N.CN. 3 | 4.4 | Complex Numbers |  | 1/2 |  |
|  |  | N.CN.7, F.IF.8.a | 4.5 | Completing the Square |  | 1/2 |  |
|  |  | N.CN.7, A.SSE.1.b, F.BF. 3 | 4.6 | The Quadratic Formula and the Discriminant |  | 1/2 |  |
|  |  | A.CED.1, A.CED. 3 | 4.8 | Quadratic Inequalities |  | 1/2 |  |
|  | Review Ch. 4 |  |  |  |  | 1 |  |
|  | Test Ch. 4 |  |  |  |  | 1 |  |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Understand the graphs and equations of conic sections. (Emphasize understanding graphs and equations of circles and parabolas). Create graphs of conic sections, including parabolas, hyperbolas, ellipses, circles, and degenerate conics, from second degree equations. | AL Standard 28 | 9.3 | Circles |  | 1/2 | 5 Days |
|  |  |  | 9.4 | Ellipses |  | 1/2 |  |
|  |  |  | 9.5 | Hyperbolas |  | 1/2 |  |
|  |  |  | 9.6 | Identifying Conic Sections |  | 1/2 |  |
|  |  |  | 9.7 | Solving systems nonlinear |  | 1 |  |
| Review Ch. 9 |  |  |  |  |  |  |  |
| Test Ch. 9 |  |  |  |  |  |  |  |
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|  | Understand radian measure of an angle as <br> the length of the arc on the unit circle subtended by the angle. [F.TF.1] Explain how the unit circle in the coordinate plane enables the extension of trig functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle. [F.TF.2] Define six trig functions using ratios of the sides of a right triangle, coordinates on the unit circle, and the reciprocal of other functions. [AL Standard] | AL Standard | 12.1 | Trig Functions in Right Triangles |  | 1 | 7 Days |
|  |  | F.TF. 1 | 12.2 | Angles and Angle Measure |  | 1 |  |
|  |  | AL Standard | 12.3 | Trig Functions of General Angles |  | 2 |  |
|  |  | F.TF.1, F.TF. 2 | 12.6 | Circular and Periodic Functions |  | 1 |  |
|  | Review 12.1-12.6 |  |  |  |  | 1 |  |
|  | Test 12.1-12.6 |  |  |  |  | 1 |  |

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