Alg. I EOC STAAR Student Profile

Critical
Important
As time permits

Student Name:_____ **Period**_____

Cate.	TEKS	R or S	Student Expectation	Basic	Basic	Interm.	Interm.	Adv.	Adv.
1	A.10A	S	Add and subtract polynomials of degree one and degree two						
1	A.10B	S	Multiply polynomials of degree one and degree two						
1	A.10C	S	Determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend						
1	A.10D	S	Rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property						
1	A.10E	R	Factor, if possible, trinomials with real factors in the form $ax^2 + bx + c$, including perfect square trinomials of degree two						
1	A.10F	S	Decide if a binomial can be written as the difference of two squares and, if possible, use the structure of a difference of two squares to rewrite the binomial.						
1	A.11A	S	Simplify numerical radical expressions involving square roots						
1	A.11B	R	Simplify numeric and algebraic expressions using the laws of exponents, including integral and rational exponents.						
1	A.12A	S	Decide whether relations represented verbally, tabularly, graphically, and symbolically define a function						

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1	A.12B	S	Evaluate functions, expressed in function notation, given one or more elements in their domains						
1	A.12C	S	Identify terms of arithmetic and geometric sequences when the sequences are given in function form using recursive processes						
1	A.12D	S	Write a formula for the n^{th} term of arithmetic and geometric sequences, given the value of several of their terms						
1	A.12E	S	Solve mathematic and scientific formulas, and other literal equations, for a specified variable						
2	A.3A	S	Determine the slope of a line given a table of values, a graph, two points on the line, & an equation written in various forms, including $y = mx + b$, $Ax + By = C$, and $y - y_1 = m(x - x_1)$						
2	A.3B	R	Calculate the rate of change of a linear function represented tabularly, graphically, or algebraically in context of mathematical and real-world problems						
2	A.3C	R	Graph linear functions on the coordinate plane and identify key features, including x -intercept, y -intercept, zeros, and slope, in mathematical and real-world problems						
2	A.3D	R	Graph the solution set of linear inequalities in two variables on the coordinate plane						

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2	A.3E	S	Determine the effects on the graph of the parent function *f(x) = x* when *f(x)* is replaced by *af(x), f(x) + d, f(x - c), f(bx)* for specific values of *a , b , c,* and *d*						
2	A.3F	S	Graph systems of two linear equations in two variables on the coordinate plane and determine the solutions if they exist						
2	A.3G	S	Estimate graphically the solutions to systems of two linear equations with two variables in real-world problems						
2	A.3H	S	Graph the solution set of systems of two linear inequalities in two variables on the coordinate plane						
2	A.4A	S	Calculate, using technology, the correlation coefficient between two quantitative variables and interpret this quantity as a measure of the strength of the linear association						
2	A.4B	S	Compare and contrast association and causation in real-world problems						
2	A.4C	S	Write, with and without technology, linear functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems						
3	A.2A	R	Determine the domain and range of a linear function in mathematical problems; determine reasonable domain and range values for real-world situations, both continuous and discrete; and represent domain and range using inequalities						

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3	A.2B	S	Write linear equations in two variables in various forms, including $y = mx + b$, $Ax + By = C$, and $y - y_1 = m(x - x_1)$, given one point and the slope and given two points						
3	A.2C	R	Write linear equations in two variables given a table of values, a graph, and a verbal description						
3	A.2D	S	Write and solve equations involving direct variation						
3	A.2E	S	Write the equation of a line that contains a given point and is parallel to a given line						
3	A.2F	S	Write the equation of a line that contains a given point and is perpendicular to a given line						
3	A.2G	S	Write an equation of a line that is parallel or perpendicular to the X or Y axis and determine whether the slope of the line is zero or undefined						
3	A.2H	S	Write linear inequalities in two variables given a table of values, a graph, and a verbal description						
3	A.2I	R	Write systems of two linear equations given a table of values, a graph, and a verbal description						

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Cate.	TEKS	R or S	Student Expectation	Basic	Basic	Interm.	Interm.	Adv.	Adv.
3	A.5A	R	Solve linear equations in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides						
3	A.5B	S	Solve linear inequalities in one variable, including those for which the application of the distributive property is necessary and for which variables are included on both sides						
3	A.5C	R	Solve systems of two linear equations with two variables for mathematical and real-world problems						
4	A.6A	R	Determine the domain and range of quadratic functions and represent the domain and range using inequalities						
4	A.6B	S	Write equations of quadratic functions given the vertex and another point on the graph, write the equation in vertex form ($f(x) = a(x - h)^2 + k$), and rewrite the equation from vertex form to standard form ($f(x) = ax^2 + bx + c$)						
4	A.6C	S	Write quadratic functions when given real solutions and graphs of their related equations						
4	A.7A	R	Graph quadratic functions on the coordinate plane and use the graph to identify key attributes, if possible, including x-intercept, y-intercept, zeros, maximum value, minimum values, vertex, and the equation of the axis of symmetry						
4	A.7B	S	Describe the relationship between the linear factors of quadratic expressions and the zeros of their associated quadratic functions						

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4	A.7C	R	Determine the effects on the graph of the parent function *f(x)* = x^2 when *f(x)* is replaced by *af(x), f(x) + d, f(x - c), f(bx)* for specific values of *a* , *b* , *c,* and *d*						
4	A.8A	R	Solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula						
4	A.8B	S	Write, using technology, quadratic functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems						
5	A.9A	S	Determine the domain and range of exponential functions of the form f(x) = abx and represent the domain and range using inequalities						
5	A.9B	S	Interpret the meaning of the values of *a* and *b* in exponential functions of the form *f(x)* = ab^x in real-world problems						
5	A.9C	R	Write exponential functions in the form *f(x)* = ab^x (where *b* is a rational number) to describe problems arising from mathematical & real-world situations, including growth & decay						
5	A.9D	R	Graph exponential functions that model growth and decay and identify key features, including *y* -intercept and asymptote, in mathematical and real-world problems						
5	A.9E	S	Write, using technology, exponential functions that provide a reasonable fit to data and make predictions for real-world problems						