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Texas Algebra I TEKS Correlated to Moving with Algebra Parts B and C

Readiness and Supporting Standards	Part B Student Book / Lesson Plans Skill Builders (SB)	Part C Student Book / Lesson Plans Skill Builders (SB)
Number and Algebraic Methods		
READINESS STANDARDS		
A.10(E) factor, if possible, trinomials with real factors in the form $ax^2 + bx + c$, including perfect square trinomials of degree two		416-419 **SB:** 342-345
A.11(B) simplify numeric and algebraic expressions using the laws of exponents, including integral and rational exponents	294-297, 303. **SB:** 312, 314, 315	390-393, 397 **SB:** 306, 308-311, 315
SUPPORTING STANDARDS		
A.10(A) add and subtract polynomials of degree one and degree two	262-265, 269 **SB:** 209, 210	411, 412 **SB:** 336, 337
A.10(B) multiply polynomials of degree one and degree two		413-415 **SB:** 338, 339
A.10C 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		
A.10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property	268, 269 **SB:** 220	**SB:** 338
A.10(F) 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		419 **SB:** 345
A.11(A) simplify numercial radical expressions involving square roots	304-305 **SB:** 233	394 **SB:** 312
A.12(A) decide whether relations represented verbally, tabularly, graphically, and symbolically define a function	317	348, 398 **SB:** 272, 316

	A.12(B) evaluate functions, expressed in function notation, given one or more elements in their domains		399 **SB:** 318
	A.12C identify terms of arithmetic and geometric sequences when the sequences are given in function form using recursive processes		
	A.12(D) write a formula for the nth term of arithmetic and geometric sequences, given the value of several of their terms	307	387, 389 **SB:** 303, 305
	A.12(E) solve mathematic and scientific formulas, and other literal equations, for a specified variable		410 **SB:** 335
	Describing and Graphing Linear Functions, Equations, and Inequalities		
	READINESS STANDARDS		
	A.3(B) calculate the rate of change of a linear function represented tabularly, graphically or algebraically in context of mathematical and real-world problems	307, 312 **SB:** 236	350, 352, 355, 359 **SB:** 274, 276, 280
	A.3C 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	312-315, 324-326 **SB:** 236-239, 259	349-360, 362, 365, 366 **SB:** 273, 278-283, 286, 296
	A.3(D) graph the solution set of linear inequalities in two variables on the coordinate plane		408, 409. **SB:** 332
	SUPPORTING STANDARDS		
	A.3(A) determine the slope of a line given a table of values, a graph, two points on the line, and an equation written in various forms, including $y = mx + b$, $Ax + By = C$, and $y - y_i = m(x - x_i)$	320-328 **SB:** 241-243, 248, 249	350, 352-357, 359-361 **SB:** 274, 276-283
	A.3(E) 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		
	A.3(F) graph systems of two linear equations in two variables on the coordinate plane and determine the solutions if they exist		403 **SB:** 323, 324
	A.3(G) estimate graphically the solutions to systems of two linear equations with two variables in real-world problems		403, 407. **SB:** 324
	A.3(H) graph the solution set of systems of two linear inequalities in two variables on the coordinate plane		409 **SB:** 333, 334

	A.4(A) calculate, using technology, the correlation coefficient between two quantitative variables and interpret this quantity as a measure of the strength of the linear association		371 **SB:** 288
	A.4(B) compare and contrast association and causation in real-world problems		
	A.4C write, with and without technology, linear functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems		371-373 **SB:** 289
	Writing and Solving Linear Functions, Equation, and Inequalities		
	READINESS STANDARDS		
	A.2(A) 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		
	A.2C write linear equations in two variables given a table of values, a graph, and a verbal description	273, 274, 332, 333 **SB:** 238-239	356-358, 360-361 **SB:** 279, 283, 298-300
	A.2(I) write systems of two linear equations given a table of values, a graph, and a verbal description		403, 404, 406
	A.5(A) 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	252- 261, 266, 267, 270-274 **SB:** 212-219, 221	342-347
	A.5C solve systems of two linear equations with two variables for mathematical and real-world problems		403-406 **SB:** 323-328
	SUPPORTING STANDARDS		
	A.2(B) write linear equations in two variables in various forms, including $y = mx + b$, $Ax + Bx = C$, and $y - y_i = m(x - x_i)$, given one point and the slope and given two points		352, 354, 356-361 **SB:** 276, 279, 281-283
	A.2(D) write and solve equations involving direct variation	314-316 **SB:** 254, 259	361-364 **SB:** 283-285, 297
	A.2(E) write the equation of a line that contains a given point and is parallel to a given line	330 **SB:** 244	378
	A.2(F) write the equation of a line that contains a given point and is perpendicular to a given line	331 **SB:** 244	380
	A.2(G) 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		365, 366

	A.2(H) write linear inequalities in two variables given a table of values, a graph, and a verbal description		
	A.5(B) 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	283-286 **SB:** 225	374-376 **SB:** 290-293
	Quadratic Functions and Equations		
	READINESS STANDARDS		
	A.6(A) determine the domain and range of quadratic functions and represent the domain and range using inequalities		422 **SB:** 348
	A.7(A) 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		420-423 **SB:** 346-349
	A.7C 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		424-426 **SB:** 351-356
	A.8(A) solve quadratic equations having real solutions by factoring, taking square roots, completing the square, and applying the quadratic formula		431-433 **SB:** 350, 362-365
	SUPPORTING STANDARDS		
	A.6(B) 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 ($f(x) = ax_2 + bx + c$)		429 **SB:** 359, 360
	A.6C write quadratic functions when given real solutions and graphs of their related equations		427, 428 **SB:** 357, 358
	A.7(B) describe the relationship between the linear factors of quadratic expressions and the zeros of their associated quadratic functions		427, 428 **SB:** 357, 358
	A.8(B) write, using technology, quadratic functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems		
	Exponential Functions and Equations		

	READINESS STANDARDS		
	A.9C write exponential functions in the form $f(x) = ab^x$ (where b is a rational number) to describe problems arising from mathematical and real-world situations, including growth and decay		402 **SB:** 322
	A.9(D) graph exponential functions that model growth and decay and identify key features, including y-intercept and asymptote, in mathematical and real-world problems		400-402 **SB:** 320-322
	SUPPORTING STANDARDS		
	A.9(A) determine the domain and range of exponential functions of the form $f(x) = ab^x$ and represent the domain and range using inequalities		
	A.9(B) interpret the meaning of the values of a and b in exponential functions of the form $f(x) = ab^x$ in real-world problems		400, 401
	A.9(E) write, using technology, exponential functions that provide a reasonable fit to data and make predictions for real-world problems		