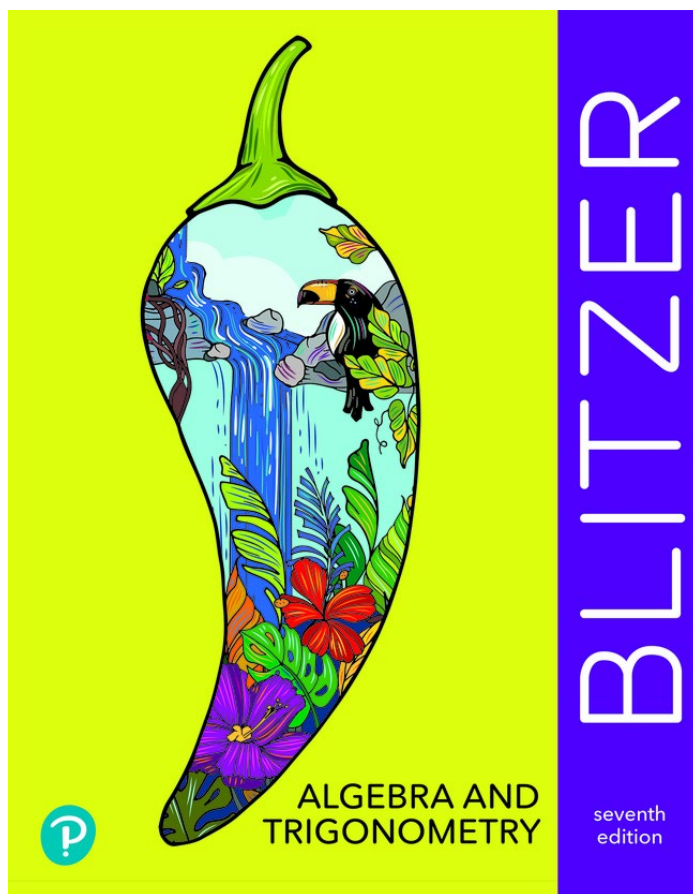


**A Correlation of**  
**Algebra and Trigonometry**  
**7<sup>th</sup> Edition**  
**©2022**



to the  
**Mathematics Standards of Learning for**  
**Virginia Public Schools 2016**  
**Trigonometry**

**A Correlation of Algebra and Trigonometry 7th Edition, ©2022  
To the Mathematics Standards of Learning for Virginia Public Schools  
Trigonometry**

<b>Mathematics Standards of Learning for Virginia Public Schools Trigonometry</b>	<b>Algebra and Trigonometry 7th Edition, ©2022</b>
<b>Triangular and Circular Trigonometric Functions</b>	
T.1 The student, given a point on the terminal side of an angle in standard position, or the value of the trigonometric function of the angle, will determine the sine, cosine, tangent, cotangent, secant, and cosecant of the angle.	<b>SE/TE:</b> 578-590
T.2 The student will develop and apply the properties of the unit circle in degrees and radians.	<b>SE/TE:</b> 544-555, 558-560
<b>Graphs of Trigonometric Functions</b>	
T.3 The student, given one of the six trigonometric functions in standard form, will	
a) state the domain and the range of the function;	<b>SE/TE:</b> 594, 601-602, 610-611, 618-621, 622-624, 626, 631, 632-635
b) determine the amplitude, period, phase shift, vertical shift, and asymptotes;	<b>SE/TE:</b> 602-610, 611-615, 618-621, 623-630, 632-635
c) sketch the graph of the function by using transformations for at least a two-period interval; and	<b>SE/TE:</b> 602-619, 624-630, 632-634
d) investigate the effect of changing the parameters in a trigonometric function on the graph of the function.	<b>SE/TE:</b> 602-619, 624-630, 632-634
T.4 The student will graph the six inverse trigonometric functions.	<b>SE/TE:</b> 636-654
<b>Equations and Identities</b>	
T.5 The student will verify basic trigonometric identities and make substitutions, using the basic identities.	<b>SE/TE:</b> 674-686
T.6 The student will solve trigonometric equations and inequalities.	Trigonometric Inequalities are not addressed. <b>SE/TE:</b> 718-731
T.7 The student will determine the value of any trigonometric function and inverse trigonometric function.	<b>SE/TE:</b> 561-577, 579-581, 584-588, 589-590, 592-593, 638-639, 640-641, 642-643, 644, 651-653

**A Correlation of Algebra and Trigonometry 7th Edition, ©2022  
To the Mathematics Standards of Learning for Virginia Public Schools  
Trigonometry**

<b>Mathematics Standards of Learning for Virginia Public Schools Trigonometry</b>	<b>Algebra and Trigonometry 7th Edition, ©2022</b>
<b>Applications of Trigonometric Functions</b>	
T.8 The student will create and solve practical problems involving triangles.	<b>SE/TE:</b> 571-573, 575-576, 654-658, 662-668
T.9 The student will solve problems, including practical problems, involving arc length and area of sectors in circles using radians and degrees; and linear and angular velocity.	<b>SE/TE:</b> 546, 555-557, 559-560

©2022 Savvas Learning Company, LLC