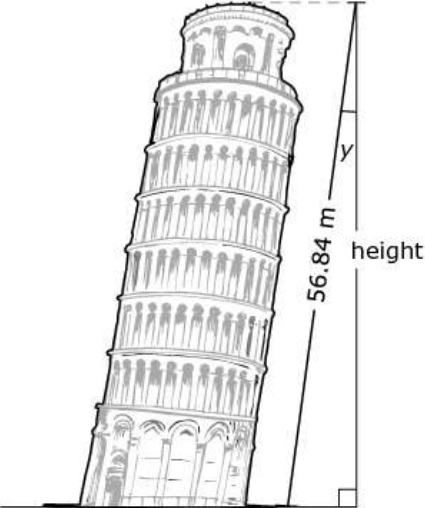


Geometry EOC Item Specifications  
Florida Standards Assessments

<p>MAFS.912.G-SRT.3.8</p> <p>Also assesses MAFS.912.G-SRT.3.6</p> <p>Also assesses MAFS.912.G-SRT.3.7</p>	<p>Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.</p> <p>Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.</p> <p>Explain and use the relationship between the sine and cosine of complementary angles.</p>
<p>Item Types</p>	<p>Editing Task Choice – May require completing an explanation of a definition or a relationship of trigonometric ratios.</p> <p>Equation Editor – May require expressing a value or an expression.</p> <p>Hot Text – May require dragging and dropping steps to explain the definition of trigonometric ratios.</p> <p>Matching Item – May require matching expressions to the appropriate trigonometric ratio.</p> <p>Multiple Choice – May require selecting from choices.</p> <p>Open Response – May require writing an informal argument or explanation.</p>
<p>Clarifications</p>	<p>Students will use trigonometric ratios and the Pythagorean theorem to solve right triangles in applied problems.</p> <p>Students will use similarity to explain the definition of trigonometric ratios for acute angles.</p> <p>Students will explain the relationship between sine and cosine of complementary angles.</p> <p>Students will use the relationship between sine and cosine of complementary angles.</p>
<p>Assessment Limit</p>	<p>Items will assess only sine, cosine, and tangent to determine the length of a side or an angle measure.</p>
<p>Stimulus Attributes</p>	<p>For G-SRT.3.8, items must be set in a real-world context.</p> <p>For G-SRT.3.6 and G-SRT.3.7, items must be set in a mathematical context.</p> <p>For G-SRT.3.8, items may require the student to apply the basic modeling cycle.</p>
<p>Response Attributes</p>	<p>Items may require the student to find equivalent ratios.</p> <p>Items may require the student to use or choose the correct unit of measure.</p> <p>Multiple-choice options may be written as a trigonometric equation.</p>

	Equation Editor items may require the student to use the inverse trigonometric function to write an expression.
Calculator	Neutral

Sample Item	Item Type												
Equation Editor													
<p>The Leaning Tower of Pisa is 56.84 meters (m) long.</p>  <p>not to scale</p> <p>In the 1990s, engineers restored the building so that angle <math>y</math> changed from <math>5.5^\circ</math> to <math>3.99^\circ</math>.</p> <p>To the nearest hundredth of a meter, how much did the restoration change the height of the Leaning Tower of Pisa?</p> <input type="text"/> <div style="border: 1px solid #ccc; padding: 5px;"><div style="border-bottom: 1px solid #ccc; margin-bottom: 5px;"><span>←</span> <span>→</span> <span>↶</span> <span>↷</span> <span>✖</span></div><table border="1" style="border-collapse: collapse; text-align: center;"><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr><tr><td>0</td><td>.</td><td>-</td></tr></table></div>		1	2	3	4	5	6	7	8	9	0	.	-
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