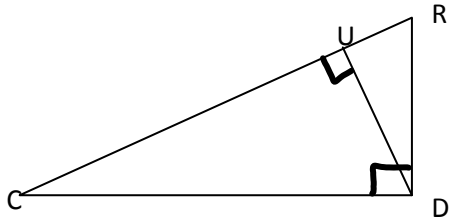
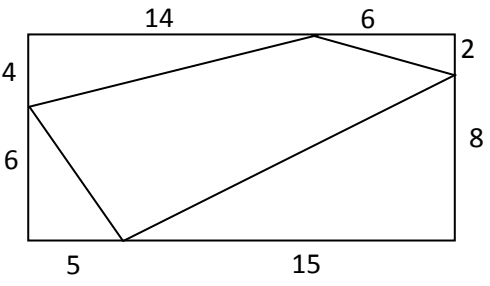
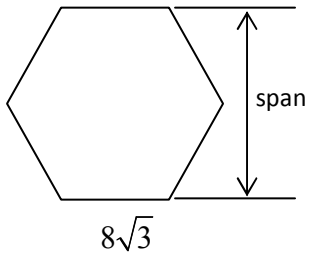
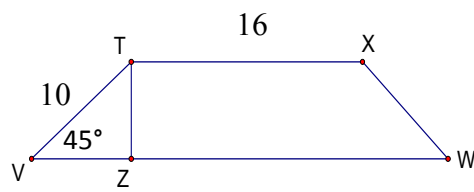
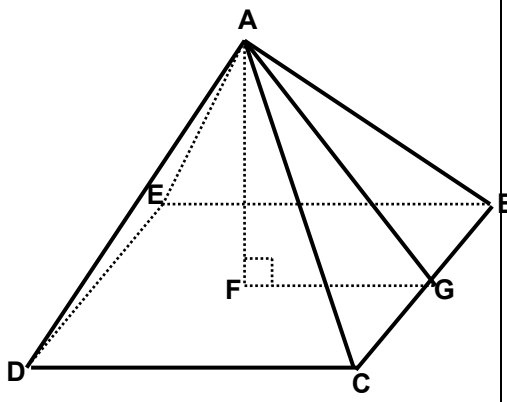


What are we learning in the Right Triangles Chapter 9?

**Please indicate how you feel about the required topics in this unit. **

Objective	Example	Answer	Rating
Simplify radicals	Simplify the following values: a. $5\sqrt{1134}$ b. $2\sqrt{75} - 3\sqrt{147}$ c. $(5 - 3\sqrt{2})^2$ d. $\frac{5}{\sqrt{27}}$	a. $45\sqrt{14}$ b. $-11\sqrt{3}$ c. $43 - 30\sqrt{2}$ d. $\frac{5\sqrt{3}}{9}$	😊 😐 😞
Solve a quadratic equation by various methods	Solve for x: a. $8x^2 + 2x - 3 = 0$ b. $5x^2 - 6x - 2 = 0$ c. $3x^2 - 4 = 104$	a. $x = \frac{1}{2}, \frac{-3}{4}$ b. $x = \frac{3 \pm \sqrt{19}}{5}$ c. $x = \pm 6$	😊 😐 😞
Apply Altitude on Hypotenuse Theorems	 <p>a. Find the measure of CR if $RU = 5$ and $RD = 10$.</p> <p>b. Find the measure of UD if $UR = 10$ and $CR = 25$.</p> <p>c. Find the measure of CU if $RU = 2$ and $CD = 2\sqrt{6}$.</p>	a. $CR = 20$ b. $UD = 5\sqrt{6}$ c. $CU = 4$	😊 😐 😞
Apply the Pythagorean Theorem, families of right triangles, and the reduced triangle principle to find missing sides of a triangle	Calculate the perimeter of the interior quadrilateral formed from connecting points on the rectangle: 	$\sqrt{61} + 17 + 2\sqrt{53} + 2\sqrt{10}$	😊 😐 😞

<p>Use the distance formula to find the distance between two points</p>	<p>a. A triangle has points A(-3, 7), B(4,5) and C(1,-2). Find the length of the median from B to \overline{AC}.</p> <p>b. The distance between (-2, 4) and (x, 16) is $4\sqrt{13}$. What is the x value?</p>	<p>a. $\frac{5}{2}\sqrt{5}$</p> <p>b. $x = 6$ or -10</p>	<p>☺ ☹ ☹</p>
<p>Apply rules for $30^\circ-60^\circ-90^\circ$ triangles</p>	<p>Calculate the span for a regular hexagon if each side length is $8\sqrt{3}$.</p> 	<p>24</p>	<p>☺ ☹ ☹</p>
<p>Apply rules for $45^\circ-45^\circ-90^\circ$ triangles</p>	<p>Calculate the perimeter of the isosceles triangle below:</p> 	<p>$52 + 10\sqrt{2}$</p>	<p>☺ ☹ ☹</p>
<p>Apply the Pythagorean Theorem in three dimensions</p>	<p>Given a square pyramid with slant height of 40 and lateral edge of 41, what is the length of the edge of the base? What is the length of the altitude?</p> 	<p>Base edge = 18</p> <p>Altitude = $\sqrt{1519}$</p>	<p>☺ ☹ ☹</p>

