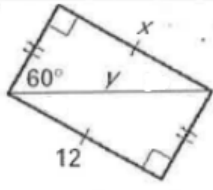
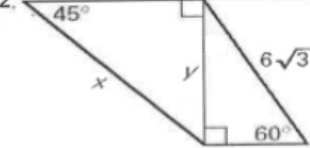
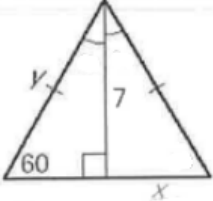
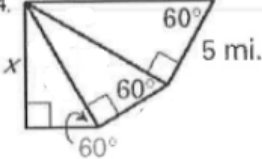


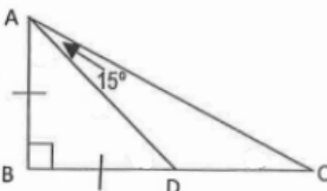
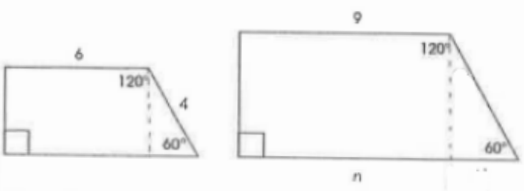
Honors Geometry

Practice Worksheet (Special Right Triangles)

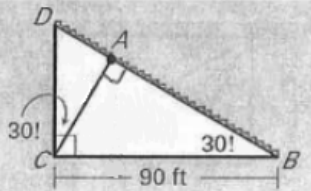
Determine value of each variable as a simplified radical:

<p>1. </p> <p>x = y =</p>	<p>2. </p> <p>x = y =</p>	<p>3. </p> <p>x = y =</p>	<p>4. </p>
---	---	--	---

Draw a picture to represent and solve each of the following:

<p>5. The altitude of an equilateral triangle is 12 centimeters. Find the perimeter of the triangle.</p>	<p>6. The diagonal of a square is 12 inches. Find the area.</p>
<p>7. The perimeter of a rectangle is 32 feet. The length is three times as long as the width. Find the length of the diagonal.</p>	<p>8. The legs of an isosceles triangle are $10\sqrt{3}$ cm long. The vertex angle has a measure of 120. Find the length of the base of the triangle and the length of the altitude from the vertex.</p>
<p>9. Find CD if AD = 16.</p> 	<p>10. Show work. Similar trapezoids are shown.</p>  <p>What is the value of n?</p> <p>A. 10 B. 12 C. 15 D. 19</p>

11. A fan at a sporting event is sitting at point A in the bleachers. The bleacher seating has an angle of elevation of 30° and a base length of 90 feet.

	<p>a. Find the height CD of the bleachers.</p>	<p>b. Find the distance AB that the fan is sitting from the base, point B.</p>	<p>c. Find the height of the fan sitting at point A from the ground, \overline{BC}</p>
---	--	--	---