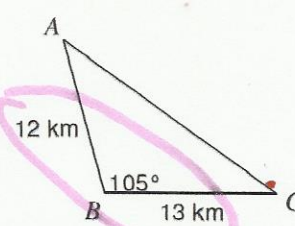
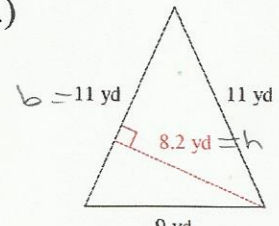
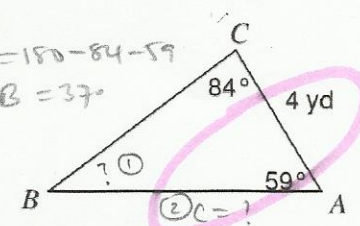
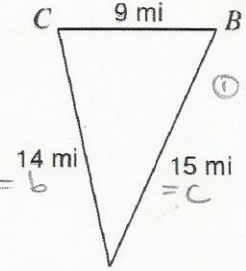
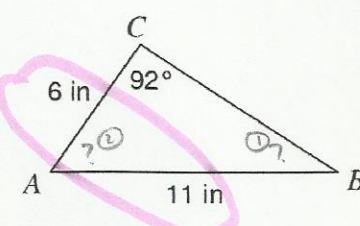
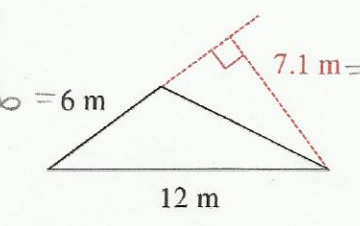
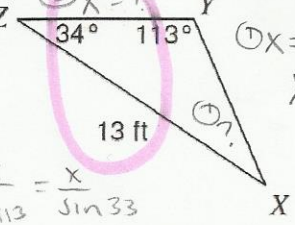
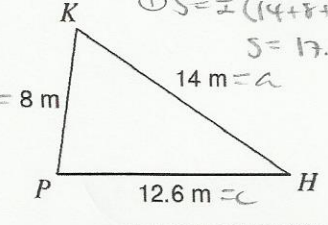
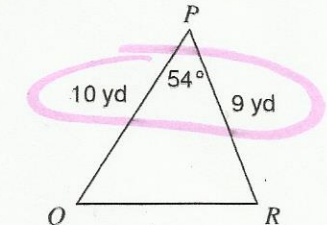
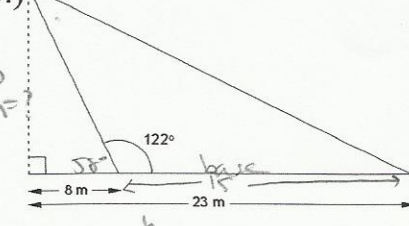
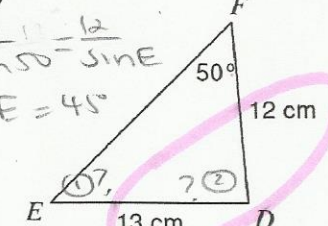
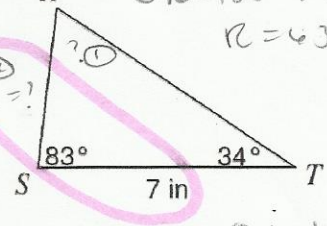


I. Find the area of each given triangle. Round to tenth place. Make sure include units in answer. Must show work to receive FULL credit!!

<p>1.)</p>  <p> $A = \frac{1}{2}ab\sin\theta$ $A = \frac{1}{2}(13)(12)\sin 105$ $A = 75.3 \text{ km}^2$ </p>	<p>2.)</p>  <p> $A = \frac{1}{2}bh$ $A = \frac{1}{2}(11)(8.2)$ $A = 45.1 \text{ yd}^2$ </p>	<p>3.)</p>  <p> $\textcircled{1} B = 180 - 84 - 59$ $B = 37^\circ$ $\textcircled{2} \frac{4}{\sin 37} = \frac{c}{\sin 84}$ $c = 6.6$ $A = \frac{1}{2}ab\sin\theta$ $A = \frac{1}{2}(4)(6.6)\sin 59$ $A = 11.3 \text{ yd}^2$ </p>
<p>4.)</p>  <p> $\textcircled{1} s = \frac{1}{2}(9+14+15)$ $s = 19$ $\textcircled{2} A = \sqrt{s(s-a)(s-b)(s-c)}$ $A = \sqrt{19(19-9)(19-14)(19-15)}$ $A = 61.6 \text{ mi}^2$ </p>	<p>5.)</p>  <p> $\textcircled{1} \frac{11}{\sin 92} = \frac{c}{\sin B}$ $B = 33^\circ$ $\textcircled{2} A = 180 - 92 - 33$ $A = 55^\circ$ $A = \frac{1}{2}ab\sin\theta$ $A = \frac{1}{2}(6)(11)\sin 55$ $A = 27 \text{ in}^2$ </p>	<p>6.)</p>  <p> $A = \frac{1}{2}bh$ $A = \frac{1}{2}(6)(7.1)$ $A = 21.3 \text{ m}^2$ </p>
<p>7.)</p>  <p> $\textcircled{1} X = 180 - 34 - 113$ $X = 33^\circ$ $\textcircled{2} \frac{13}{\sin 113} = \frac{x}{\sin 33}$ $x = 7.7$ $\textcircled{3} A = \frac{1}{2}(7.7)(13)\sin 34$ $A = 28 \text{ ft}^2$ </p>	<p>8.)</p>  <p> $\textcircled{1} s = \frac{1}{2}(14+8+12.6)$ $s = 17.3$ $\textcircled{2} A = \sqrt{s(s-a)(s-b)(s-c)}$ $A = \sqrt{17.3(17.3-14)(17.3-8)(17.3-12.6)}$ $A = 50 \text{ m}^2$ </p>	<p>9.)</p>  <p> $A = \frac{1}{2}ab\sin\theta$ $A = \frac{1}{2}(10)(9)\sin 54$ $A = 36.4 \text{ yd}^2$ </p>
<p>10.)</p>  <p> $\textcircled{1} \tan 58 = \frac{h}{8}$ $h = 10.8$ $\textcircled{2} A = \frac{1}{2}bh$ $A = \frac{1}{2}(23)(10.8)$ $A = 96 \text{ m}^2$ </p>	<p>11.)</p>  <p> $\textcircled{1} \frac{12}{\sin 50} = \frac{e}{\sin E}$ $E = 45^\circ$ $\textcircled{2} D = 180 - 50 - 45$ $D = 85^\circ$ $A = \frac{1}{2}ab\sin\theta$ $A = \frac{1}{2}(12)(13)\sin 85$ $A = 77.7 \text{ cm}^2$ </p>	<p>12.)</p>  <p> $\textcircled{1} R = 180 - 83 - 34$ $R = 63^\circ$ $\textcircled{2} \frac{7}{\sin 63} = \frac{t}{\sin 34}$ $t = 4.4$ $\textcircled{3} A = \frac{1}{2}ab\sin\theta$ $A = \frac{1}{2}(7)(4.4)\sin 63$ $A = 15.3 \text{ in}^2$ </p>