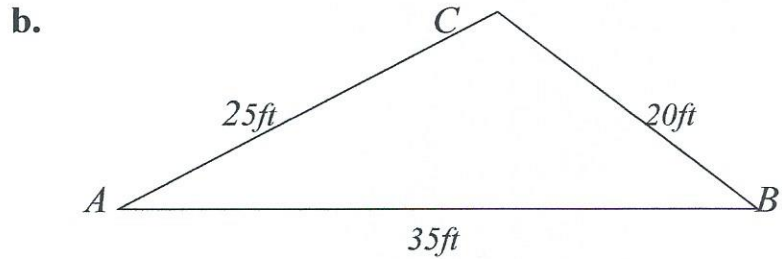
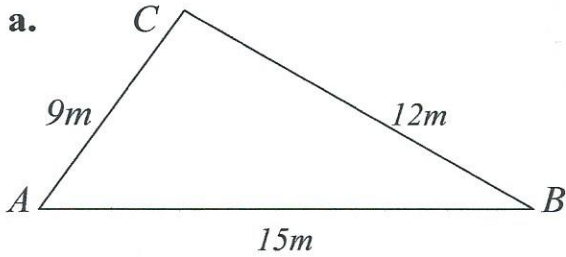


2. Find the Area of the triangles.



c. $a = 20\text{cm}, b = 20\text{cm}, c = 10\text{cm}$

d. $a = 5\text{in}, b = 7\text{in}, c = 10\text{in}$

$s = \frac{5+7+10}{2} = 11$

Area = $\sqrt{11(11-5)(11-7)(11-10)} = \sqrt{220} = \underline{14.8\text{in}^2}$

3. A 100ft vertical tower is built on the side of a hill with an 8° incline. Find the length of the two guide wires that are anchored 75ft uphill and downhill from the base of the tower.

$x^2 = 75^2 + 100^2 - 2 \cdot 75 \cdot 100 \cdot \cos 98^\circ$

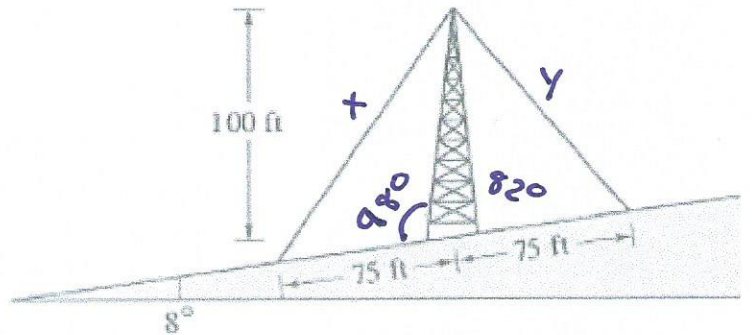
$x^2 = 17712.6$

$x = \underline{131.9\text{ft}}$

$y^2 = 75^2 + 100^2 - 2 \cdot 75 \cdot 100 \cdot \cos 82^\circ$

$y^2 = 13,537.4$

$y = \underline{116.4\text{ft}}$



4. To find the length of a swamp, a surveyor walks 950ft from point A to B. Next he turns 80° and walks 800ft to point C. Find the length of the swamp. SAS

