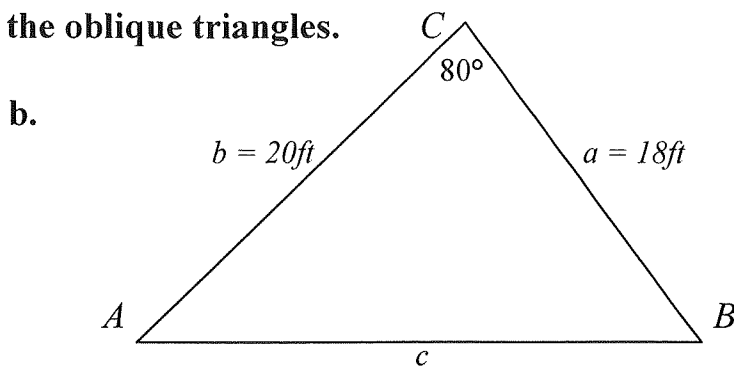
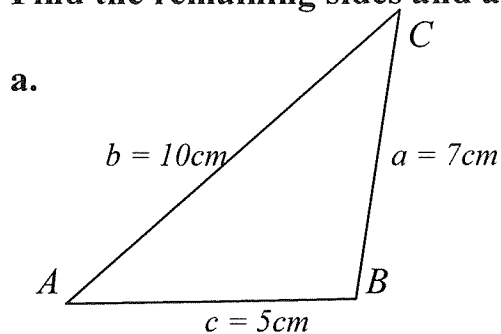


Practice 9.3: The Law of Cosines

1. Find the remaining sides and angles of the oblique triangles.



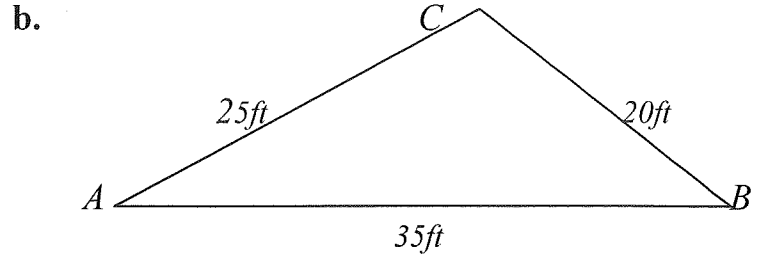
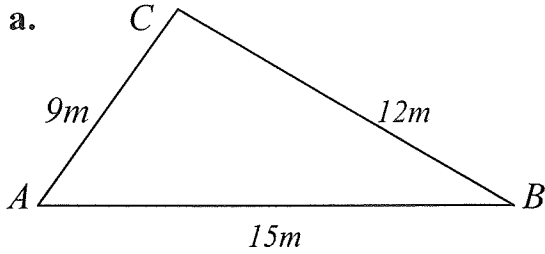
c. $a = 55\text{mi}, b = 25\text{mi}, c = 72\text{mi}$

d. $A = 120^\circ, b = 3\text{km}, c = 10\text{km}$

e. $a = 4\text{in}, b = 9\text{in}, c = 10\text{in}$

f. $C = 55^\circ, b = 3\text{m}, c = 10\text{m}$

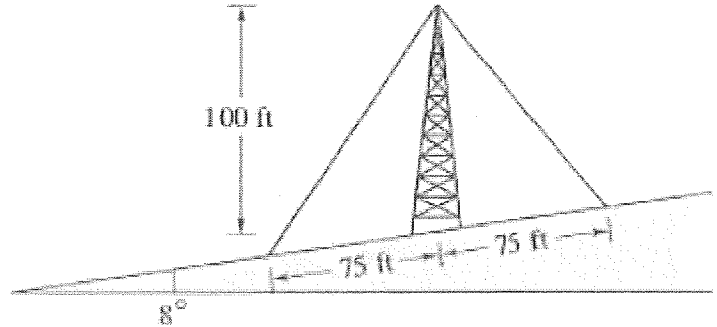
2. Find the Area of the triangles.



c. $a = 20cm$, $b = 20cm$, $c = 10cm$

d. $a = 5in$, $b = 7in$, $c = 10in$

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.



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.

