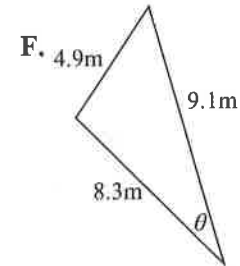
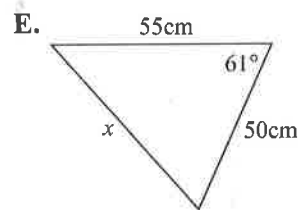
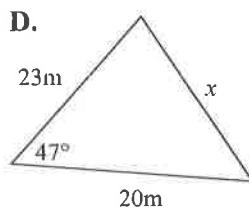
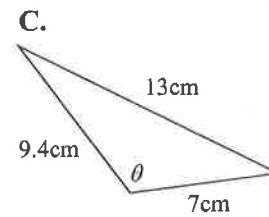
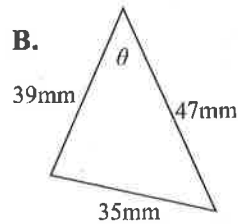
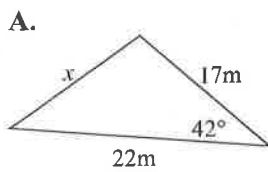


LAW OF COSINES WORKSHEET

1. Solve for the unknown in each triangle. Round to the nearest hundredth.



2. Solve for **all** missing sides and angles in each triangle. Round to the nearest hundredth. ** USE PROPER VARIABLES

A. $\triangle XYZ$: $x = 29\text{m}$, $y = 15\text{m}$, $\angle Z = 122^\circ$

B. $\triangle GHI$: $g = 13\text{cm}$, $h = 8\text{cm}$, $i = 15\text{cm}$

C. $\triangle MNO$: $n = 31\text{m}$, $o = 28\text{m}$, $\angle M = 62^\circ$

3. A triangle has sides equal to 4 m, 11 m and 8 m. Find its angles (round answers to nearest tenth)

4. A ship leaves port at 1 pm traveling north at the speed of 30 miles/hour. At 3 pm, the ship adjusts its course on a bearing of N 20° E. How far is the ship from the port at 4pm? (round to the nearest unit).

5. Find the area of the triangle whose sides are 12cm., 5cm. and 13cm.