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

A. \[ \triangle \quad x \quad 17m \quad 42^\circ \quad 22m \]

B. \[ \theta \quad 39mm \quad 47mm \quad 35mm \]

C. \[ \quad 13cm \quad \theta \quad 7cm \]

D. \[ 23m \quad 47^\circ \quad 20m \]

E. \[ 55cm \quad 61^\circ \quad 50cm \]

F. \[ 4.9m \quad 9.1m \quad 8.3m \]

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

A. \( \triangle XYZ \): \( x = 29m, y = 15m, \angle Z = 122^\circ \)

B. \( \triangle GHI \): \( g = 13cm, h = 8cm, i = 15cm \)

C. \( \triangle MNO \): \( n = 31m, o = 28m, \angle M = 62^\circ \)

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

A. \( x = 14.7 \)\( \quad 17 \text{m} \quad 42^\circ \) 
\( 22 \text{m} \)

B. \( \theta = 46.90^\circ \) 
\( \theta = 39 \text{mm} \quad 47 \text{mm} \quad 35 \text{mm} \)

C. \( \theta = 103.91^\circ \) 
\( 13 \text{cm} \quad 9.4 \text{cm} \quad 7 \text{cm} \)

D. \( x = 17.37^\circ \) 
\( 20 \text{m} \quad 23 \text{m} \quad 47^\circ \)

E. \( x = 53.47^\circ \) 
\( 55 \text{cm} \quad 50 \text{cm} \quad 61^\circ \)

F. \( \theta = 32.30^\circ \) 
\( 9.1 \text{m} \quad 8.3 \text{m} \quad 4.9 \text{m} \)

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

A. \( \triangle XYZ : x = 29 \text{m}, y = 15 \text{m}, \angle Z = 122^\circ \) 
\( z = 39.08 \text{m} \) \( \angle X = 38.99^\circ \) \( \angle Y = 19.01^\circ \)

B. \( \triangle GHI : g = 13 \text{cm}, h = 8 \text{cm}, i = 15 \text{cm} \) 
\( \angle G = 60^\circ \) \( \angle H = 32.20^\circ \) \( \angle I = 87.80^\circ \)

C. \( \triangle MNO : n = 31 \text{m}, o = 28 \text{m}, \angle M = 62^\circ \) 
\( m = 30.50 \text{cm} \) \( \angle N = 63.83^\circ \) \( \angle O = 54.16^\circ \)

3. A triangle has sides equal to 4 m, 11 m and 8 m. Find its angles (round answers to nearest tenth) \( 16.21^\circ, 129.84^\circ, 33.95^\circ \)

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 20º E. How far is the ship from the port at 4pm? (round to the nearest unit) \( 88.79 \text{ miles} \)

5. Find the area of the triangle whose sides are 12cm., 5cm. and 13cm. \( 30.00 \text{ cm}^2 \)