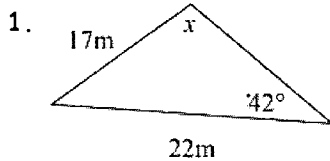
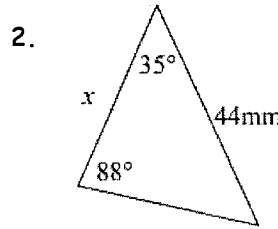


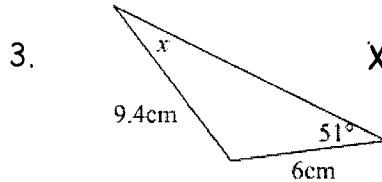
Solve for the unknown in each triangle. Round to the nearest tenth.



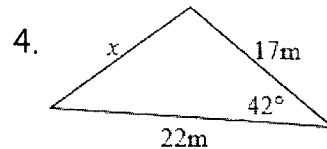
$x = 60.0^\circ$



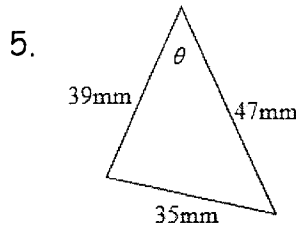
$x = 36.9 \text{ mm}$



$x = 29.7^\circ$

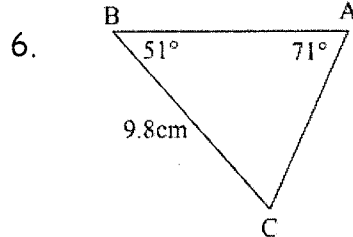


$x = 14.74 \text{ m}$

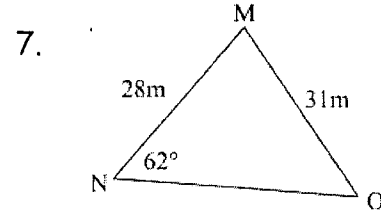


$\theta = 46.9^\circ$

Solve for all missing sides and angles in each triangle. Round to the nearest tenth.



$C = 58^\circ$
 $b = 8.1$
 $c = 8.8$



$O = 52.9^\circ$
 $M = 65.1^\circ$
 $m = 31.8$

8. $m\angle B = 84^\circ, a = 18, b = 9$

no soln.

9. $m\angle A = 70^\circ, c = 26, a = 25$

$C = 77.8^\circ$ | $C = 102.2^\circ$
 $B = 32.2^\circ$ | $B = 7.8^\circ$
 $b = 14.2$ | $b = 3.6$

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

$I = 87.8^\circ, G = 60^\circ, H = 32.2^\circ$

11. To find the distance across a river, a surveyor chooses points A and B, which are 200 ft. apart on one side of the river. She chooses a reference point C on the opposite side of the river and finds that $\angle BAC = 82^\circ$ and $\angle ABC = 52^\circ$. Find the distance across the river.

217.0ft

12. A girl is flying two kites at the same time. If the strings are 200 ft and 230 ft long, and the kites are 110 ft apart, what angle do the strings in her hand make?

28.6°