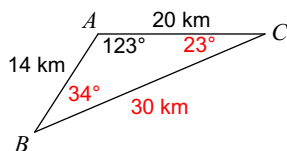


Quiz LOS - LOC

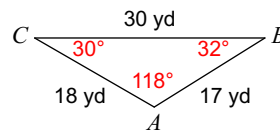
Date _____ Period _____

Solve each triangle. Round your answers to the nearest tenth.

1)



2)

3) In $\triangle RST$, $m\angle R = 22^\circ$, $t = 27$ km, $r = 25$ km

$$m\angle S = 134.1^\circ, m\angle T = 23.9^\circ, s = 47.9 \text{ km}$$

$$\text{Or } m\angle S = 1.9^\circ, m\angle T = 156.1^\circ, s = 2.2 \text{ km}$$

4) In $\triangle XYZ$, $m\angle X = 44^\circ$, $z = 39$ mi, $x = 38$ mi

$$m\angle Y = 90.5^\circ, m\angle Z = 45.5^\circ, y = 54.7 \text{ mi}$$

$$\text{Or } m\angle Y = 1.5^\circ, m\angle Z = 134.5^\circ, y = 1.4 \text{ mi}$$

5) In $\triangle HPK$, $m\angle H = 87^\circ$, $m\angle K = 40^\circ$, $p = 36$ yd

$$m\angle P = 53^\circ, k = 29 \text{ yd}, h = 45 \text{ yd}$$

6) $m\angle A = 160^\circ$, $c = 24$, $a = 8$

Not a triangle