

Right Triangle Review

Find the other side and angle measures for the following triangles; given:

1. $\triangle ABC$ with $\angle A = 90^\circ$, $\angle B = 34^\circ$, $c = 14.7$
2. $\triangle ABC$ with $\angle B = 90^\circ$, $\angle C = 71^\circ$, $b = 36.8$
3. $\triangle LMN$ with $\angle M = 90^\circ$, $\angle N = 47^\circ 32'$, $m = 3.465$
4. $\triangle HPJ$ with $\angle H = 90^\circ$, $\angle J = 29^\circ 51'$, $j = 4651$
5. $\triangle XYZ$ with $\angle X = 90^\circ$, $x = 35$, $y = 27$
6. $\triangle KLM$ with $\angle L = 90^\circ$, $k = 5.2$, $m = 3.3$
7. $\triangle RST$ with $\angle T = 90^\circ$, $s = 9.85$, $t = 47.3$
8. $\triangle UVW$ with $\angle W = 90^\circ$, $u = 439.8$, $v = 641.2$

Answers:

1. $m\angle C = 56^\circ$
 $a = 17.7$
 $b = 9.92$

5. $m\angle Y = 50^\circ 29'$
 $m\angle Z = 39^\circ 31'$
 $z = 22.27$

2. $m\angle A = 19^\circ$
 $a = 11.967$
 $c = 34.795$

6. $m\angle K = 57^\circ 36'$
 $m\angle M = 32^\circ 24'$
 $l = 6.2$

3. $m\angle L = 42^\circ 28'$
 $l = 2.339$
 $n = 2.556$

7. $m\angle R = 77^\circ 59'$
 $m\angle S = 12^\circ 01'$
 $r = 46.3$

4. $m\angle P = 60^\circ 09'$
 $h = 9344$
 $p = 8105$

8. $m\angle U = 34^\circ 27'$
 $m\angle V = 55.55^\circ$
 $w = 777.53$