

Answers.

1. right
2. obtuse
3. acute
4. right
5. 0
6. 1
7. 1
8. 0
9. 2
10. 0
11. 2
12. 2
13. 1
14. 1
15.  $\angle Q = 59^\circ, \angle R = 73^\circ$  or  $\angle Q = 121^\circ, \angle R = 11^\circ$
16.  $\angle R = 70^\circ, \angle Q = 75^\circ$  or  $\angle R = 110^\circ, \angle Q = 34^\circ$
17.  $\angle R = 69^\circ, \angle Q = 90^\circ$  or  $\angle R = 111^\circ, \angle Q = 48^\circ$
18.  $\angle Q \approx 64^\circ, \angle R \approx 90^\circ$  or  $\angle Q \approx 116^\circ, \angle R \approx 38^\circ$
19.  $\angle B = 33^\circ, \angle C = 75^\circ, c = 46$
20.  $\angle B = 83^\circ, \angle A = 46^\circ, a = 66$  or  $\angle B = 97^\circ, \angle A = 32^\circ, a = 49$
21.  $\angle A = 30^\circ, \angle C = 35^\circ, c = 14$
22.  $\angle B = 30^\circ, \angle C = 104^\circ, c = 97$
23. No triangle exists.
24. No triangle exists.
25.  $\angle C = 28^\circ, \angle A = 129^\circ, a = 248$  or  $\angle C = 152^\circ, \angle A = 5^\circ, a = 28$
26.  $\angle A = 62^\circ, \angle B = 79^\circ, b = 125$  or  $\angle A = 118^\circ, \angle B = 23^\circ, b = 49$
27.  $\angle A = 24^\circ, \angle C = 137^\circ, c = 735$  or  $\angle A = 156^\circ, \angle C = 5^\circ, c = 97$
28.  $\angle C = 75^\circ, \angle B = 46^\circ, b = 14$  or  $\angle C = 105^\circ, \angle B = 16^\circ, b = 5$