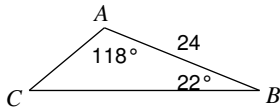


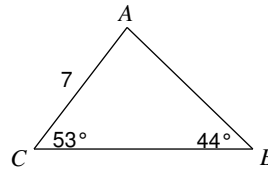
## The Law of Sines

Find each measurement indicated. Round your answers to the nearest tenth.

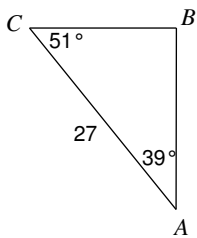
1) Find AC



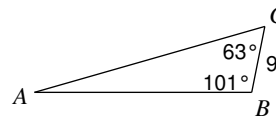
2) Find AB



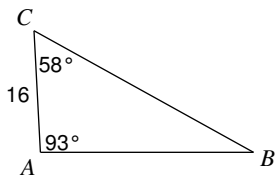
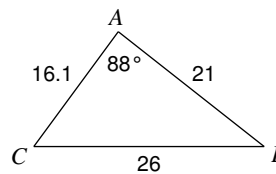
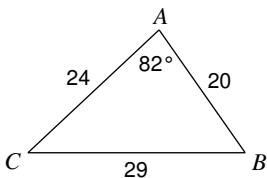
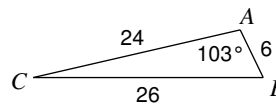
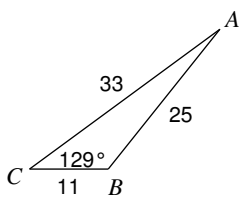
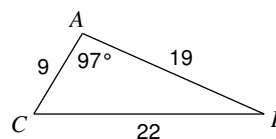
3) Find BC



4) Find AB



5) Find BC

6) Find  $m\angle C$ 7) Find  $m\angle C$ 8) Find  $m\angle C$ 9) Find  $m\angle A$ 10) Find  $m\angle C$ 

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

11)  $m\angle A = 70^\circ$ ,  $c = 26$ ,  $a = 25$

12)  $m\angle B = 45^\circ$ ,  $a = 28$ ,  $b = 27$

13)  $m\angle C = 145^\circ$ ,  $b = 7$ ,  $c = 33$

14)  $m\angle B = 73^\circ$ ,  $a = 7$ ,  $b = 5$

15)  $m\angle B = 117^\circ$ ,  $a = 16$ ,  $b = 38$

16)  $m\angle B = 84^\circ$ ,  $a = 18$ ,  $b = 9$

17)  $m\angle B = 105^\circ$ ,  $b = 23$ ,  $a = 14$

18)  $m\angle C = 13^\circ$ ,  $m\angle A = 22^\circ$ ,  $c = 9$

**State the number of possible triangles that can be formed using the given measurements.**

19)  $m\angle C = 63^\circ$ ,  $b = 9$ ,  $c = 12$

20)  $m\angle B = 33^\circ$ ,  $a = 27$ ,  $b = 22$

21)  $m\angle B = 29^\circ$ ,  $a = 14$ ,  $b = 19$

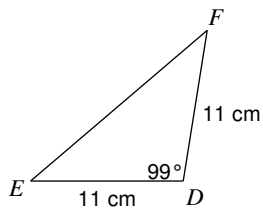
22)  $m\angle B = 95^\circ$ ,  $b = 24$ ,  $a = 5$

23)  $m\angle A = 29^\circ$ ,  $c = 18$ ,  $a = 17$

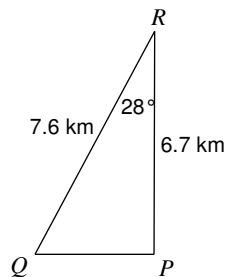
24)  $m\angle B = 35^\circ$ ,  $a = 24$ ,  $b = 6$

**Find the area of each triangle to the nearest tenth.**

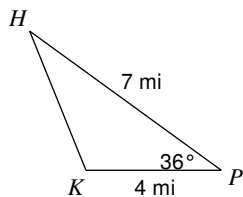
25)



26)



27)



28)

