

5. Consider this data collected from a survey of a colony.

Favourite Sport	Cricket	Basket Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	430	250
Participating	620	320	320	250	105

(i) Draw a double bar graph choosing an appropriate scale.

What do you infer from the bar graph?

(ii) Which sport is most popular?

(iii) Which is more preferred, watching or participating in sports?

6. Take the data giving the minimum and the maximum temperature of various cities given in the beginning of this Chapter (Table 3.1). Plot a double bar graph using the data and answer the following:

(i) Which city has the largest difference in the minimum and maximum temperature on the given date?

(ii) Which is the hottest city and which is the coldest city?

(iii) Name two cities where maximum temperature of one was less than the minimum temperature of the other.

(iv) Name the city which has the least difference between its minimum and the maximum temperature.

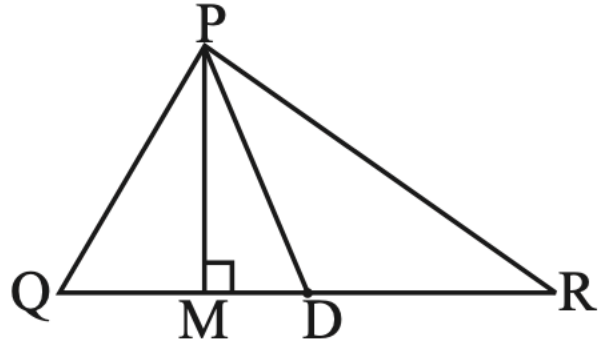
1. In  $\triangle PQR$ , D is the mid-point of  $\overline{QR}$ .

$\overline{PM}$  is \_\_\_\_\_.

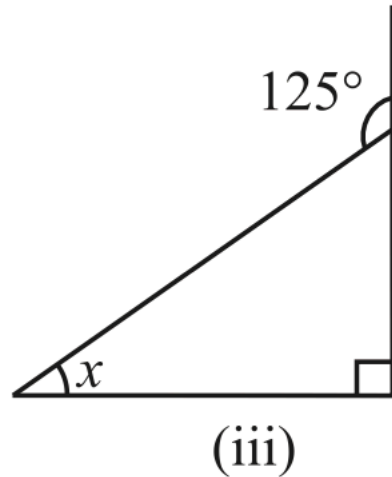
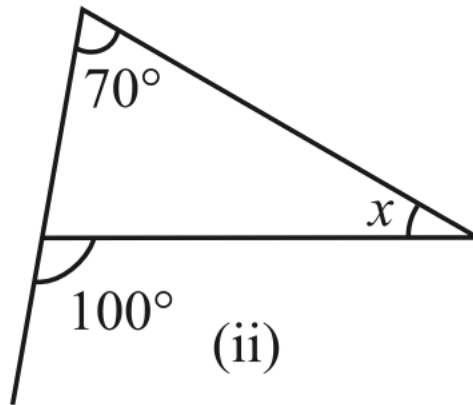
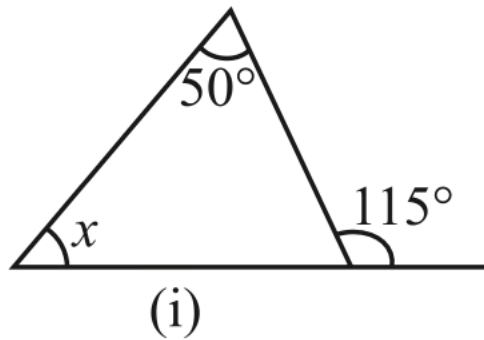
PD is \_\_\_\_\_.

Is  $QM = MR$ ?

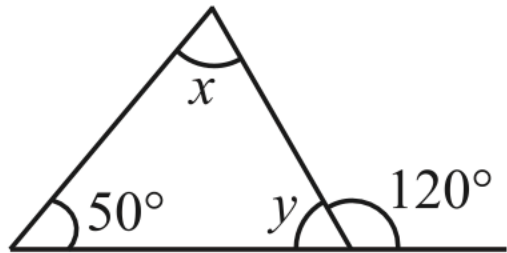
2. Draw rough sketches for the following:



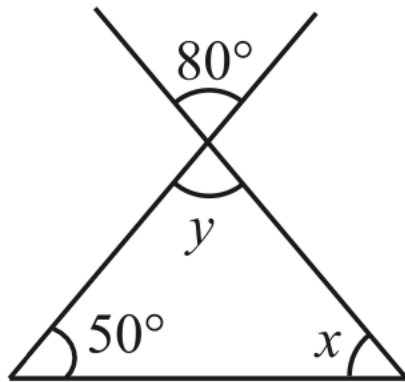
2. Find the value of the unknown interior angle  $x$  in the following figures:



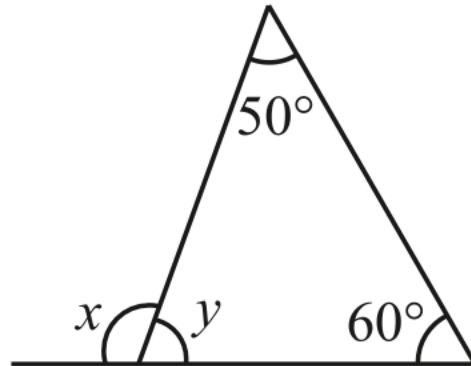
2. Find the values of the unknowns  $x$  and  $y$  in the following diagrams:



(i)



(ii)



(iii)

1. Can you have a triangle with two right angles?
2. Can you have a triangle with two obtuse angles?
3. Can you have a triangle with two acute angles?
4. Can you have a triangle with all the three angles greater than  $60^\circ$ ?
5. Can you have a triangle with all the three angles equal to  $60^\circ$ ?
6. Can you have a triangle with all the three angles less than  $60^\circ$ ?

**1.** Is it possible to have a triangle with the following sides?

(i) 2 cm, 3 cm, 5 cm

(ii) 3 cm, 6 cm, 7 cm

**6.** The lengths of two sides of a triangle are 12 cm and 15 cm. Between what two measures should the length of the third side fall?