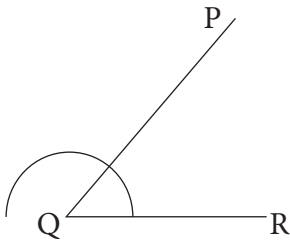


# Constructions

- Q1.** Construct  $\angle ABC$  equal to the angle  $\angle PQR$  given below. Are the two angles congruent?



- Q2.** Which of the following angles cannot be constructed using compass?

- a.  $105^\circ$
- b.  $45^\circ$
- c.  $135^\circ$
- d.  $85^\circ$

Answer: \_\_\_\_\_

- Q3.** Construct an angle which is two-third of  $180^\circ$ .

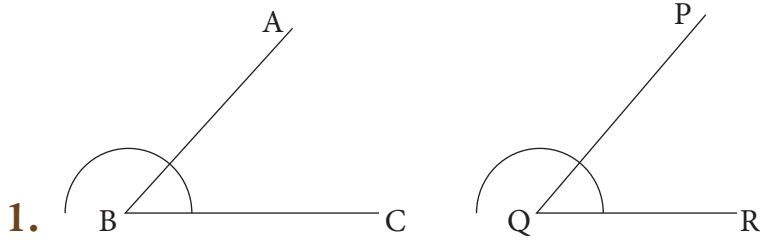
- Q4.** Construct an isosceles triangle ABC with one equal side 3.5 cm and vertical angle  $30^\circ$ .

- Q5.** Construct an isosceles triangle ABC whose base is 3.5 cm and equal sides are 4 cm.

- Q6.** Construct a right-angled triangle whose hypotenuse  $PR = 10$  cm, one side  $PQ = 6$  cm.

- Q7.** The sides of a scalene triangle EFG measure 15%, 20% and 30% of the perimeter. If the perimeter of the triangle is 20 cm, find the measure of the sides and construct the triangle.
- Q8.** Construct an equilateral triangle DEF whose perimeter is 12.6 cm.
- Q9.** Construct an isosceles right-angled triangle ABC such that one of the equal sides is 4 cm. Also, construct a circle passing through all the three points A, B and C.
- Q10.** Construct a circle with radius  $OP = 3.8$  cm, where O is the centre. Construct a tangent of 5.2 cm at P.

# Answers



Yes, the two angles are congruent.

2. (d)

