Question 1:

Construct the given quadrilaterals.

(a) Quadrilateral ABCD

AB = 4cm

BC = 5cm

CD = 4.5cm

$\angle B = 60°$

$\angle C = 90°$

(b) Quadrilateral PQRS

PQ = 3.5cm

QR = 3cm

RS = 4cm
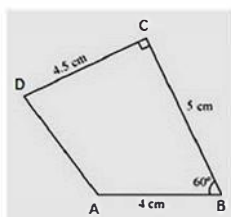
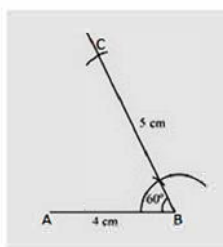$\angle Q = 75°$

$\angle R = 120°$

Answer:

(a) Quadrilateral ABCD

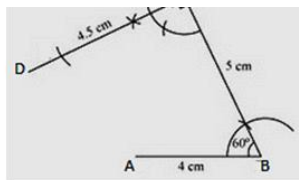(i) Draw a rough sketch of the given quadrilateral as given below.

(ii) Draw a line segment AB of 4 cm and mark an angle of $60°$ at point B. Cut a line segment BC of 5 cm from its ray as vertex B is 6 cm away from vertex B.
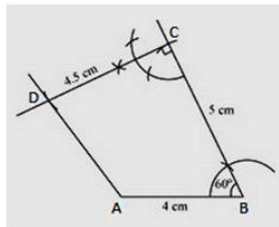

(iii) Draw an angle of $90°$ at point C. Cut a line segment DC of 4.5 cm from its ray as vertex C is 4.5 cm away from vertex C.
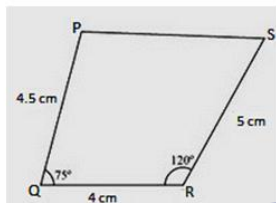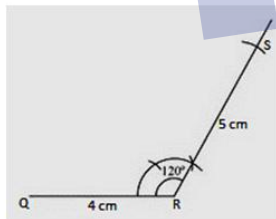
(iv) Join A to D.

Thus we get the required quadrilateral ABCD.
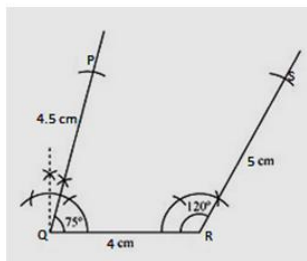
(b) Quadrilateral PQRS

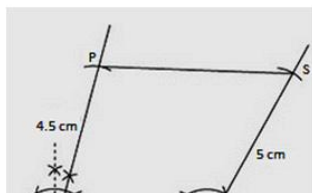(i) Draw a rough sketch of the given quadrilateral as given below.

(ii) Draw a line segment QR of 4 cm and point R make an angle of $120°$. Cut a line segment RS of 5 cm from its ray as vertex S is 5 cm away from vertex R.

(iii) Draw an angle of $75°$ at point Q. Cut a line segment QP of 4.5 cm from its ray as vertex P is 4.5 cm away from vertex Q.

(iv) Join P to S.

Thus we get the required quadrilateral PQRS.