

$\therefore AC = \underline{\hspace{2cm}}$... (Taking square roots)

(B) Solve the following subquestions (any two) :

(4)

- (1) In a circle, two equal chords are at distance of 9 cm from the centre and length of equal chords is 24 cm. Find radius of circle.
- (2) Plot the following points and check whether they are collinear or not.
(1, 2) (2, -1) and (-1, 4)
- (3) Using opposite angles test for parallelogram, prove that every rectangle is a parallelogram.

Q3) Solve the following subquestions (any two) :

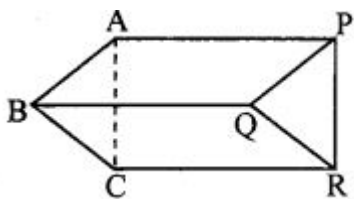
(6)

- (1) Draw the graph of the equations given below.
 $3x - y = 0$
- (2) In parallelogram ABCD, if $\angle A = (3x + 12)^\circ$, $\angle B = (2x - 32)^\circ$. Find the value of x and then find the measures of $m\angle C$ and $m\angle D$.
- (3) Radius of the circle is 34 cm and the distance of the chord from the centre is 30 cm, Find the length of the chord.

Q4) Solve the following subquestions (any one) :

(4)

- (1) In the adjoining figure, if seg AB \parallel seg PQ, seg AB \cong seg PQ, seg AC \parallel seg PR, seg AC \cong seg PR, then Prove that seg BC \parallel seg QR and seg BC \cong seg QR.



- (2) Construct $\triangle PQR$ such that $\angle P = 70^\circ$, $\angle R = 50^\circ$, $QR = 7.3$ cm. and construct its circumcircle.

All the Best