Anita's Coaching Classes

Math - Quadrilateral

Time :

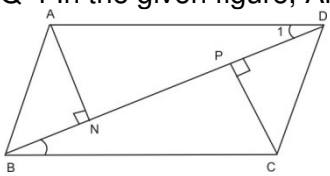
Marks :

Q 1 Name a quadrilateral whose each pair of opposite sides is equal.

Q 2 The angles of quadrilateral are respectively 100°, 30°, 92° and x. Find the value of x.

Q 3 The angles of quadrilateral are in the ratio 3:5:9:13. Find all the angles of the quadrilateral.

Q 4 In the given figure, AN and CP are perpendicular to the diagonal BD of a parallelogram ABCD.



Prove that :

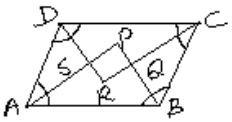
(i) $\triangle ADN \cong \triangle CBP$

(ii) AN = CP

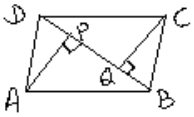
Q.5 Show that the diagonals of a rhombus are perpendicular to each other.

Q.6 ABC is an isosceles triangle in which AB = AC. AD bisects exterior

Q.7 Show that the bisectors of angles of a parallelogram form a rectangle.

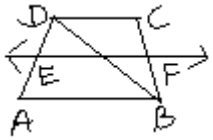


Q.8 ABCD is a parallelogram and AP and CQ are perpendiculars from vertices A and C on diagonal BD Show that (i) $\triangle APB \cong \triangle CQD$ (ii) AP = CQ



Q.9 ABC is a triangle right angled at C. A line through the mid-point M of hypotenuse AB and parallel to BC intersects AC at D. Show that

(i) D is the mid-point of AC (ii) $MD \perp AC$

(iii) CM = MA = ½ AB

Q.10 ABCD is a trapezium in which AB ∥ DC, BD is a diagonal and E is the mid-point of AD. A line is drawn through E parallel to AB intersecting BC at F (see Fig. 8.30). Show that F is the mid-point of BC.