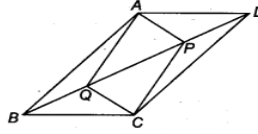


(ASSIGNMENT)

1. What is the base of a rhombus, if its area is 40 square units and the height is 8 units? Ans: 5 units
2. Find the perimeter of the quadrilateral with sides 5 cm, 7 cm, 9 cm and 11 cm. Ans: 32 cm
3. In a quadrilateral ABCD, the angles A, B, C and D are in ratio 1:2:3:4. Find the measure of each angle of the quadrilateral.
4. ABCD is a quadrilateral, whose angles are $\angle A = 5(a+2)^\circ$, $\angle B = 2(2a+7)^\circ$, $\angle C = 64^\circ$, $\angle D = \angle C - 8^\circ$. Determine the value of $\angle A$.
5. ABCD is a rhombus. Show that diagonal AC bisects $\angle A$ as well as $\angle C$ and diagonal BD bisects $\angle B$ as well as $\angle D$.
6. In parallelogram ABCD, two points P and Q are taken on diagonal BD such that $DP = BQ$ (see figure).

Show that



- (i) $\triangle APD \cong \triangle CQB$
- (ii) $AP = CQ$
- (iii) $\triangle AQB \cong \triangle CPD$
- (iv) $AQ = CP$
- (v) $APCQ$ is a parallelogram.