

G.N. National Public School, Garaknath, G.K.P.

Class- IX MATHS CHAPTER- 8 Quadrilaterals

Assignment Part - 1

Q-1. Three angles of a quadrilateral are 80° , 95° and 112° . Find its fourth angle.

Q-2. The angles of a quadrilateral are in the ratio $3:4:5:6$. Find the smallest of these angles.

Q-3. ABCD is a rhombus such that $\angle ACB = 50^\circ$. Find $\angle ADB$.

Q-4. The lengths of the diagonals of a rhombus are 16 cm and 12 cm. Find the length of its side.

Q-5. The length of each side of a rhombus is 10 cm and one of its diagonals is of length 16 cm. Find the length of the other diagonal.

Q-6. A diagonal of a rectangle is inclined to one side of the rectangle at 35° . Find the acute angle between the diagonals.

Q-7. In a quadrilateral ABCD, AO and BO are the bisectors of $\angle A$ and $\angle B$ respectively, $\angle C = 70^\circ$ and $\angle D = 30^\circ$. Find $\angle AOB$.

Q-8. If an angle of a parallelogram is two thirds of its adjacent angle, Find the smallest angle of the parallelogram.