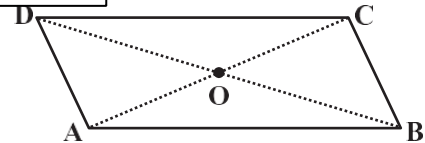




PUBLIC SCHOOL DARBHANGA

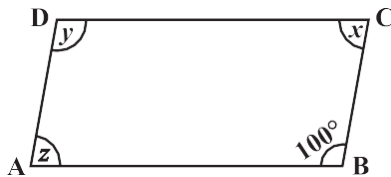
SESSION (2020-21)
CLASS-VIII
MATHEMATICS
Quadrilaterals



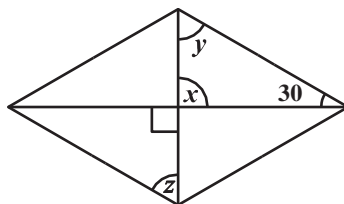
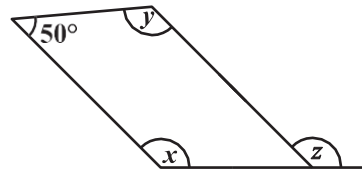
1. Given a parallelogram ABCD. Complete each statement along with the definition or property used.

- (i) $AD = \dots\dots$ (ii) $\angle DCB = \dots\dots$
 (iii) $OC = \dots\dots$ (iv) $m \angle DAB + m \angle CDA = \dots\dots$

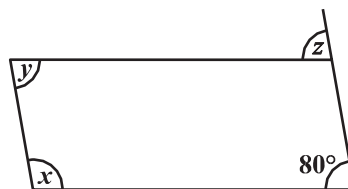
1. Consider the following parallelograms. Find the values of the unknowns x, y, z .



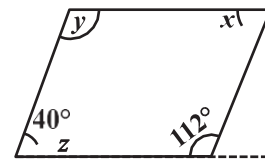
(i) (ii)



(iii)



(iv)



(v)

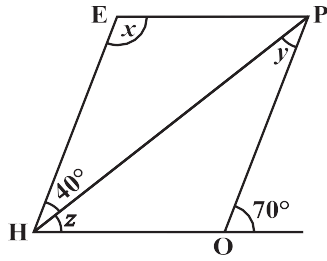
2. Can a quadrilateral ABCD be a parallelogram if

- (i) $\angle D + \angle B = 180^\circ$? (ii) $AB = DC = 8$ cm, $AD = 4$ cm and $BC = 4.4$ cm? (iii) $\angle A = 70^\circ$ and $\angle C = 65^\circ$?

3. Draw a rough figure of a quadrilateral that is not a parallelogram but has exactly two opposite angles of equal measure.

4. The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram.

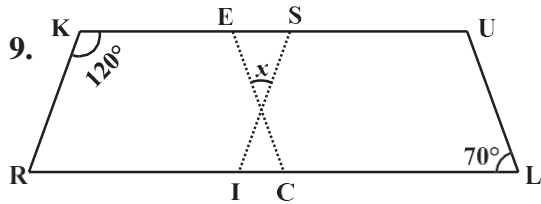
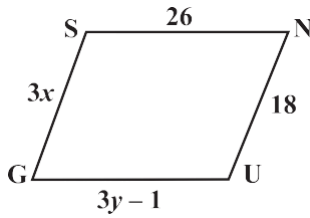
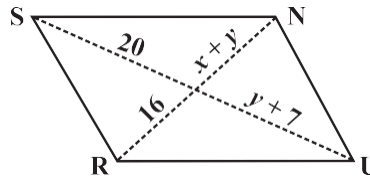
5. Two adjacent angles of a parallelogram have equal measure.



Find the measure of each of the angles of the parallelogram.

6. The adjacent figure HOPE is a parallelogram. Find the angle measures x , y and z . State the properties you use to find them.
7. The following figures GUNS and RUNS are parallelograms. Find x and y . (Lengths are in cm)

- (i)
- (ii)



In the above figure both RISK and CLUE are parallelograms. Find the value of x .

- 10 Explain how this figure is a trapezium. Which of its two sides are parallel?

