



Section [A]

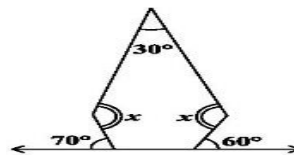
- Find the measure of each exterior angle of a regular polygon of :
(a) 12 sides (b) 18 sides
- Find the number of sides of a regular polygon whose each interior angle has a measure of 135° .
- Identify all the quadrilateral that have :
(a) Four sides of equal length (b) Four right angles
- State true or false that “all squares are not parallelograms”, justify.

Section [B]

- Explain how a square is
(a) A parallelogram (b) A rhombus
- PLAN is a rectangle, its diagonal meets at O find x if $OP = 2x + 4$ and $ON = 3x + 1$.
- The sides of a parallelogram are in the ratio 3:2. If its perimeter is 30 cm, find the length of the sides.
- Two adjacent angles of a parallelogram have equal measure. Find the measure of each of the angles of the parallelogram.

Section [C]

- ABCD is a rhombus whose diagonals AC and BD intersect at a point O. If side $AB = 10\text{cm}$ and diagonal $BD = 16\text{ cm}$, find the length of diagonal AC.

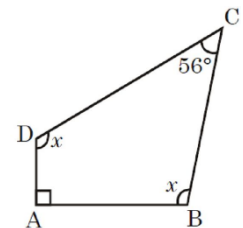
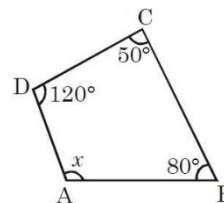


- Find the angle measure x in the figure

- ABCD is a rhombus whose diagonals AC and BD intersect at a point O. If side $AB = 10\text{cm}$ and diagonal $BD = 16\text{ cm}$, find the length of diagonal AC.

- Three angles of a quadrilateral are in the ratio 3:4:5. The difference of the least and the greatest of these angles is 45. Find all the four angles of the quadrilateral.

- In the below figure, ABCD is a quadrilateral. Find x.

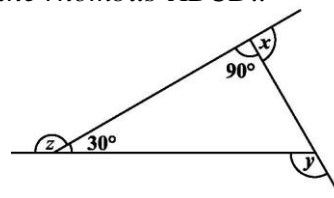
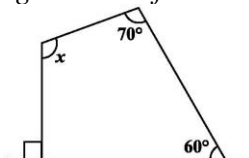


Section [D]

- ABCD is a rhombus, its diagonal intersects at O in which $AO = 4\text{cm}$ and $OB = 3\text{ cm}$. What is the length of the side of the rhombus?

- The diagonals of a rhombus ABCD intersect at O. If $\angle ADC = 120^\circ$ and $OD = 6\text{ cm}$, draw figure and find
(i) $\angle OAD$ (ii) side AB (iii) perimeter of the rhombus ABCD..

- Find unknown angles in the following figures



- In the below figure, ABCD and SONI are parallelogram. What is the value of x?

