

ATOMIC ENERGY EDUCATION SOCIETY

DISTANCE EDUCATION PROGRAMME

CLASS 8- MATHEMATICS

CHAPTER-3

UNDERSTANDING QUADRILATERALS

MODULE-1/4

## Worksheet 1

### Module 1/4

#### Understanding Quadrilaterals

Q.1. Fill in the blanks

1. A quadrilateral has -----diagonals.
2. The sum of the angles of a quadrilateral is -----.
3. The sum of the angles of a quadrilateral is ----- right angles.
4. The number of sides and the number of diagonals is same in a --.
5. The regular polygon having 4 sides is called a -----.

Q.2. The angles of a quadrilateral are in the ratio 3:5:7:9. Find the angles of the quadrilateral.

Q.3. Three angles of a quadrilateral are equal. Fourth angle is of measure  $150^\circ$ . What is the measure of each of the equal angles ?

Q. 4. Three angles of a quadrilateral are  $110^\circ, 50^\circ$  and  $40^\circ$  . find the measure of its fourth angle.

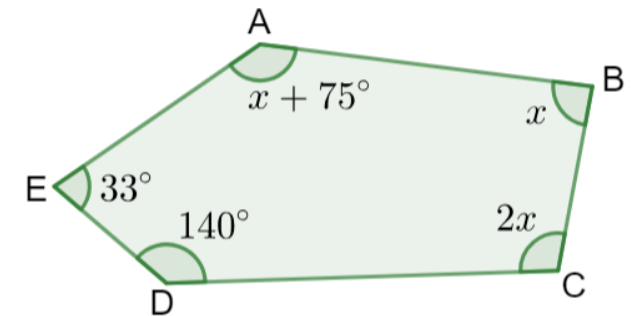
Q.5. If the sum of two angles of a quadrilateral is  $180^\circ$ , what is the sum of remaining two angles?

Q.6. How many sides has a regular polygon, each angle of which is of measure  $108^\circ$ ?

Q.7. The interior angle of a regular polygon is  $156^\circ$ . Find the number of sides of the polygon.

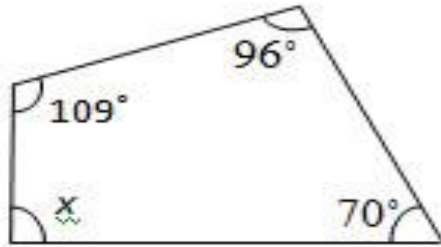
Q.8. What is the measure of each angle of a regular hexagon ?

Q.9. Find 'x' in the figure shown aside.

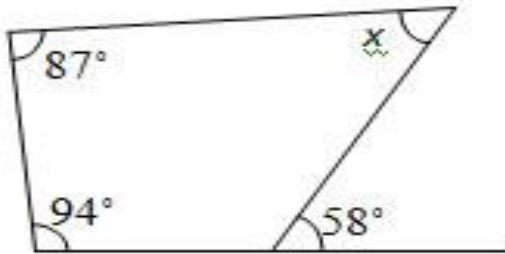


Q.10. Find 'x' in the following figures.

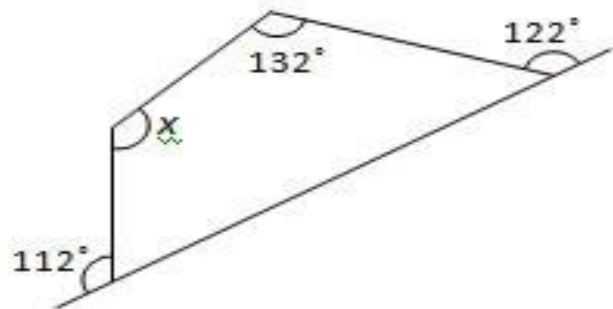
a)



b)



c)



# Thank You

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