Mathematics Class – VII

Assignment - (Triangles and Their Properties)

1.	If D is the mid-point of the side BC in triangle ABC where AB = AC, then angle ADC is
	a) 120°
	b) 60°
	c) 45 ⁰
	d) 90°
2.	Identify the type of triangle:
	i. A triangle with all sides equal.
	ii. A triangle with two sides equal.
	iii. A triangle with all sides of different lengths.
	iv. A triangle with one angle greater than 90°.
	v. A triangle with one angle equal to 90°.
3.	Fill in the blanks:
	i. The sum of the interior angles of a triangle is
	ii. In an equilateral triangle, each angle measures degrees.
	iii. The longest side of a right-angled triangle is called the
	iv. In an isosceles triangle, the angles opposite the equal sides are
4.	Assertion (A): in a triangle, median divides the side into equal parts.
	Reason (R): In equilateral triangle median divides the triangle into two equa
	parts.
	A triangle has angles measuring 50°, 60°, and x°. Find the value of x.
6.	The lengths of two sides of a triangle are 7 cm and 10 cm. What could be the
	range of possible lengths for the third side?
	In a right-angled triangle, one of the angles is 35°. Find the other two angles.
8.	What is the sum of the exterior angles of any triangle?

9. In an isosceles triangle, if one angle is 40°, find the measure of the other two

10. If two angles of a triangle are 50° and 60°, what is the third angle?