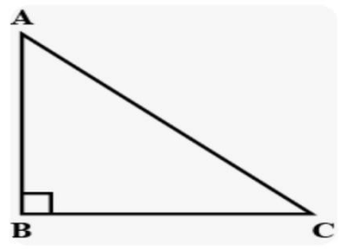
NAAHAR PUBLIC SCHOOL (CBSE) SENIOR SECONDARY–VILLUPURAM
SLIP TEST-3 (OCT)

CLASS: VII **DATE: 01.11.2022**
SUBJECT: MATHEMATICS **MARKS: 25**
TEACHER 's INITIAL: Mrs. JACULIN MARY **DUR: 40min**

I. Fill in the blanks: **(5×1=5)**

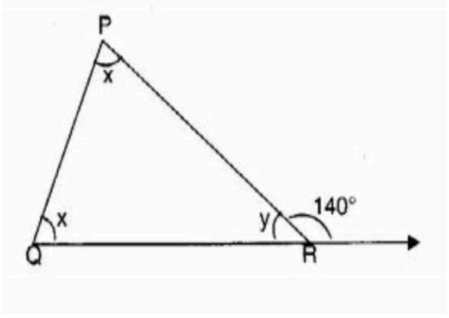
1.An _____ angles of a triangle is equal to the sum of the two interior opposite angles.
2. If all the sides of a triangle are unequal then it is called a _____ triangle.
3. The perpendicular line segment drawn from a vertex of a triangle to the opposite side is called its _____.
4. In right triangle ABC, $AB^2 + BC^2 =$ _____



5. A triangle in which two sides are of equal lengths is called an _____ triangle.

II. Choose the correct answer: **(5×1=5)**

1. In the following figure find the value of x



a) 70 b) 80 c) 75 d) 85
2. A triangle has _____ medians.
a) 2 b) 3 c) 1 d) none of these
3. Sum of three angles of a triangle is _____
a) 90 b) 70 c) 360 d) 180
4. If two sides of a triangle are added then the result is
a) greater than third b) less than third c) equal to third d) none of these
5. In the Pythagoras property the triangle must be
a) obtuse angled b) acute angled c) right angled d) none of these

III. Write true or false **(2×1=2)**

1. Sum of all the three interior angles of a triangle is 180 °
2. In a right triangle the length of hypotenuse is equal to sum of the lengths of the other two sides.

IV. Match the following **(3×1=3)**

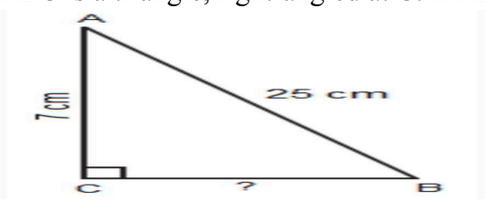
1. An exterior angle of a triangle is 100°
then it's adjacent interior angle is - 40 °

2. Sum of two angles of a triangle is 119°.
The measure of the third angle is - 80°

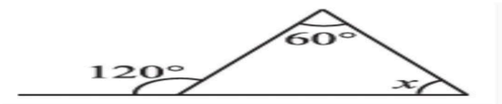
3. In a right triangle, one of the acute angle is
50°. The measure of the other acute angle is - 62°

V. Do the following **(5×2=10)**

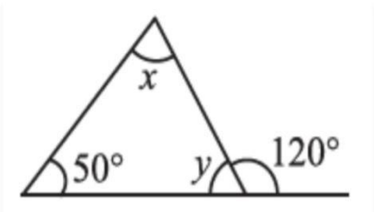
1. ABC is a triangle, right-angled at C. If AB = 25 cm and AC = 7 cm, find BC.



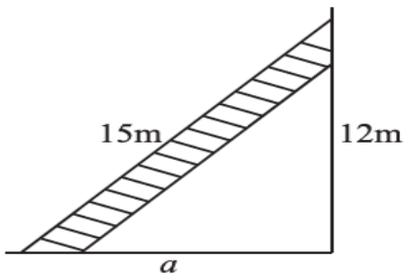
2. Find the value of the unknown interior angle x in the following figure.



3. Find the values of the unknowns x and y in the following diagram.



4. A 15 m long ladder reached a window 12 m high from the ground on placing it against a wall at a distance a. Find the distance of the foot of the ladder from the wall.



5. Write the statement of

(I) Angle sum property of Triangle

(II) Exterior angle of a Triangle.