

Student Name -

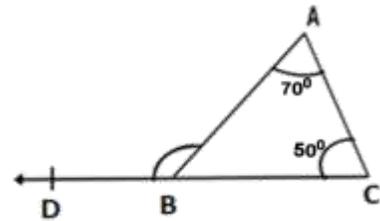
Q.1: Choose the correct alternative answer for each of the following questions. (Marks - 5)

- 1) Out of the following _____ is an irrational number.
A) $\sqrt{9}$ B) $\sqrt{3}$ C) 3 D) 0
- 2) If the measures of two angles of a triangle are 60° and 50° , then find the measure of third angle.
A) 20° B) 70° C) 110° D) 250°
- 3) Median drawn on hypotenuse of a right angled triangle is _____ of the length of hypotenuse .
A) double B) five times C) four times D) half
- 4) Cube root of 64 is _____ .
A) 2 B) 8 C) 16 D) 4
- 5) Measure of semicircular arc is _____ .
A) 180° B) 360° C) 0° D) 90°

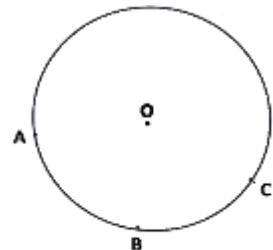
Q.2: Solve

(Marks - 6)

- 1) Write the following fraction in decimal form . $\frac{22}{3}$
- 2) From the adjoining figure find measure of $\angle ABC$

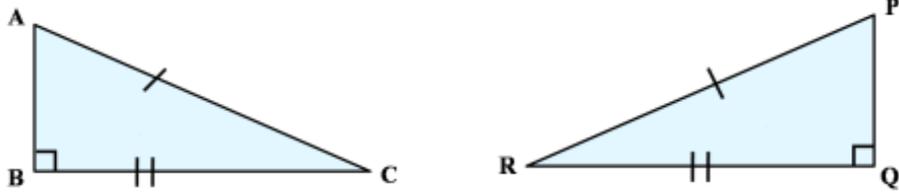


- 3) Write the name of any one minor arc from the adjoining figure of circle with center O.



4) Add $(2x^2 - 4x + 6) + (4x^2 + 5x - 7)$

5) Write the name of the test by which following triangles are congruent .



6) $\angle r$ and $\angle s$ are vertically opposite angles .If the measure of angle r is 70° then find the measure of angle s .

Q.3: - Solve

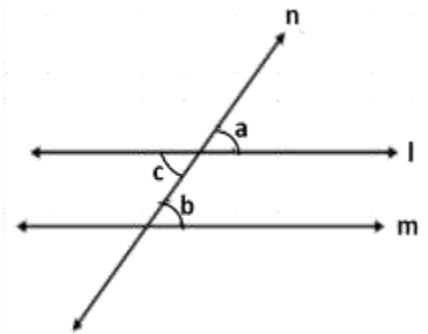
(Marks - 8)

1) Represent $\sqrt{3}$ on a number line.

2) In the figure line $l \parallel$ line m and line n is their transversal.

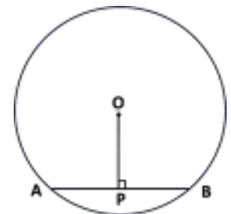
i) Write the type of pair of $\angle b$ and $\angle c$.

ii) If $m\angle a = 50^\circ$ then $m\angle b = ?$



3) In a circle with centre O , seg AB is a chord . $\ell(AB) = 6$ cm.

Seg $OP \perp$ chord AB, if $\ell(OP) = 4$ cm then find the radius of the circle.



4) Expand . $(m + 3n)^2$

Q.4: Solve the following sub-questions.

(Marks - 6)

1) Construct $\triangle ABC$ such that $\ell(AB) = 5.2$ cm, $\ell(BC) = 5.8$ cm and $\ell(AC) = 6.3$.

2) Multiply and write the degree of the product.

$$(x^2 - 6x + 8)(x - 2)$$