

i) The matrix $\begin{bmatrix} 1 & 0 \\ 0 & 3 \end{bmatrix}$ is called _____

- a) Scalar b) Diagonal
- c) Identify d) Rectangular

ii) $\sqrt[3]{-64} =$

- A) -8 B) -4 C) 4 D) 8

iii) 0.00729 in scientific notation can be written as _____

- a) 729×10^{-3} b) 72.9×10^{-3}
c) 7.29×10^{-3} d) 0.729×10^{-3}

iv) $(7x + 4y) - (3x - 6y) =$ _____

- A) $(4x+10y)$ B) $(4x-2y)$ C) $(4x+2y)$ D) $(4x-2y)$

v) Factorization of $x^2 - 5x + 6$ is

- a) $(x-2)(x+3)$ b) $\frac{(x-2)(x-3)}{(x+2)(x-3)}$
c) $(x+2)(x+3)$ d) $(x+2)(x-3)$

vi) HCF of $a^3 - b^3$ and $a^2 + ab + b^2$ is

- a) $a + b$ b) $a - b$
c) $(a - b)(a + b)$ d) $a^2 + ab + b^2$

vii) $\sqrt{2x+1} - 5 = 4$ is a equation.

- a) Linear b) Cubic
c) **Radical** d) Quadratic

viii) The two coordinate axes intersect at an angle of _____

- A) 30° B) 45° C) 60° D) 90°

ix) All are the sufficient condition for the congruency of two

triangles EXCEPT

- a) $A.S.A \cong A.S.A$ b) $H.S \cong H.S$
c) $S.A.A \cong S.A.A$ d) $A.A.A \cong A.A.A$

x) If sum of the measure $\angle A$ and $\angle C$ of a parallelogram ABCD is 120, then $m\angle B =$

- A) 25° B) 50° C) 60° D) 65°

xi) The angle bisectors of a triangle meet at a point which is equidistant from _____ of the triangle.

- a) Vertices b) Sides.
c) Mid-point of sides d) All of these

xii) A segment bisector is a line that divides a segment into congruent parts.

- A) 4 B) 3 C) 2 D) 1

xiii) In $\triangle ABC$, $m\angle A = 50^\circ$ and $m\angle B = 30^\circ$, which of the following is correct?

- a) $m\overline{BC} > m\overline{AB}$ b) $m\overline{AB} > m\overline{CA}$
c) $m\overline{BC} < m\overline{CA}$ d) $m\overline{AD} < m\overline{CA}$

xiv) Which of the following are the sides of a right angled triangle?

- A) 2,3,4 B) 3,4,5 C) 4,5,6 D) 5,6,7

xv) Perpendicular from a vertex of a triangle to its opposite side is called

- a) Median b) Perpendicular bisector
c) **Altitude** d) Angle bisector