

18. $\sin(30^\circ) + \cos(60^\circ)$ is equal to $\tan(45^\circ)$.

(True/False)

OR

If $\sin A = \cos A$, where A is acute angle, then angle A is _____

19. Calculate mean of first 10 natural numbers.

20. Write the formula for Mean of Grouped data.

OR

Mode of observations 4, 2, 9, 2, 1, 3, 2, 5, 2 is _____

SECTION-B

21. Solve by substitution method

$$\sqrt{2}x + \sqrt{3}y = 0 \text{ and } \sqrt{3}x - \sqrt{8}y = 0$$

22. Find discriminant of the quadratic equation $2x^2 - 4x + 3 = 0$ and hence nature of roots.

23. Given $15\cot A = 8$, find $\sec A$.

24. Find volume of hemisphere of radius 2cm.

OR

Calculate volume of cylinder of radius 1 cm and height 1 cm.

25. Find the point on the x-axis which is equidistant from $(2, -5)$ and $(-2, 9)$.

OR

Determine if the points $(1, 5)$, $(2, 3)$ and $(-2, -11)$ are collinear.

26. The sum and product of zeros of quadratic polynomial $x^2 - 15$ are?

SECTION-C

27. If A and B are $(-2, 2)$ and $(2, -4)$ respectively, find the coordinates of P such that $AP = \frac{1}{7} AB$ and P lies on the line segment AB.

28. Find the area of the sector of a circle with radius 4 cm and angle 30° . Also find the area of the corresponding major sector.

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Annelies Wilder-Smith



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