Govt. Ghazali Degree College, Jhang

(Important Short Questions) Course: Algebra and Trigonometry

Chapter # 14

Solutions of Trigonometric Equations

Following short questions are selected from previous 5 years papers of different boards. Solve these at your own to perform well in annual exams.

- 1. Solve $sec^2\theta = \frac{4}{3}$ in $[0, 2\pi]$.
- 2. Solve sinx + cosx = 0, where $x \in [0, 2\pi]$.
- 3. Solve $2sin^2\theta sin\theta = 0$, where $\theta \in [0, 2\pi]$.
- 4. Find the values of $\theta \in [0, \pi]$, if $4sin^2\theta 8cos\theta + 1 = 0$.
- 5. Find the solution of cosx 1 = 0 in $[0, 2\pi]$.
- 6. Solve the equation $sinx = \frac{1}{2}$, where $x \in [0, 2\pi]$.
- 7. Solve the equation $1 + \cos x = 0$.
- 8. Solve the trigonometric equation $tan\theta = \frac{1}{\sqrt{3}}$.
- 9. Find the solution of secx = -2 which lie in $[0, 2\pi]$.
- 10. Find the solution of $sinx = -\frac{\sqrt{3}}{2}$ which lie in $[0, 2\pi]$.
- 11. Find the solution set of the equation $sinx = \frac{1}{2}$.

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Best of Luck