KALYAN ACADEMY

BHARATH NAGAR, HYD-18

TRIGONOMETRY | CLASS X | WORKSHEET -1

1. **If Cos θ = 8/17, Find the other trigonometric ratios?**
2. **If sin θ = a^2-b^2 / a^2+ b^2, Find the other trigonometric ratios?**
3. **If tan A = 1/√3, Find sinA CosB + CosA SinB?**
4. **If cot θ = 1/√3, show that 1- $\cos^2$ θ / 2- $\sin^2$ θ = 3/5?**
5. **If tan θ = 24/7, Find sin θ + cos θ?**
6. **If 8tanA =15, Find Sin A – Cos A?**
7. **Given that 16 cot *A* = 12, find the value of SinA + Cos A / Sin A –Cos A?**
8. **If tan θ = ¾ then find the value of $\cos^2\theta$-$\sin^2\theta$?**
9. **If 4 cot θ = 3 then write the value of tanθ + cotθ?**
10. **If tan θ = 1/√3, prove that 7$\sin^2$ θ + 3$\cos^2$ θ =4 ?**
11. **If 16 cot A = 12 find the value of sin A + cos A / sin A -cos A?**
12. **If cosec θ = 13/12, Find 2 sin θ – 3 cos θ / 4 sin θ – 9 cos θ?**
13. **In ∆ABC right angled at C if tan A = tan B show that ∟A = ∟B**
14. **In ∆ABC right angled at B, AB = 7 cm and AC- BC = 1 cm, find the values of sin A, cos A and tan A**