**Class X**

**Mathematics**

**Introduction to Trigonometry - Module 1 / 3**

**Worksheet**

1. **If sin A =**$\frac{3}{4}$**, calculate cos A and tan A.
Solution:**


**2. In the given figure, find tan P – cot R.
Solution:**


**3. Given sec θ =**$\frac{13}{12}$**, calculate all other trigonometric ratios.
Solution:**


**4. Given 15 cot A = 8, find sin A and sec A.
Solution:**


**Solve the following**

1. In a △ ABC, right angled at B, AB = 24 cm , BC = 7 cm. Determine

 (i) sin A , cos A (ii) sin C, cos C

 2. In fig., find tan P and cot R. Is tan P = cot R?



3.In △PQR, right-angled at Q, PQ = 4cm and RQ = 3 cm. Find the value of

 sin P, sin R, sec P and sec R.

4. Given 15cot A= 8, find sin A and sec A.

5. If cos θ = 12/13, show that sin θ(1 – tan θ) = 35/156

6. If 3 cot θ = 2, find the value of

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7. If tan θ = a/b, find the value of (cos θ + sin θ)/ (cos θ – sin θ)

8. If tan θ = 12/13, find the value of

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