1. If sin A = cos A then find the value of A.
2. If 4 sin2 θ – 1 = 0 then find ‘θ’ (θ < 90) also, find the value of θ and the value of cos2θ + tan2θ
3. Show that tan2θ – 1cos2*𝜃* = 1
4. Find the value of   
   TS 10th Class Maths Important Questions Chapter 11 Trigonometry 13
5. If tan θ = √3 (θ is acute angle) then find the value of 1 + cos θ.
6. Solve below

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1. Solve below



1. Find the value of tan2 60 + 4 cos2 45 + 3 sec2 30 + 5 cos2 90 = cosec 30 + sec 60 – cot2 30
2. In a right angled triangle ABC, with right angle at B in which a = 5 units, b = 13 units and ∠BCA = θ, then find sin θ and tan θ.
3. If Cos c = 3/5, then find Sin c and Tan c
4. If 12 Tan A = 9, then find Sin A and Cos A.
5. If 5Cot A = 12, find Cos A and Cosec A.
6. Evaluate the following.  
   i) Sin 60° + Cos 60°





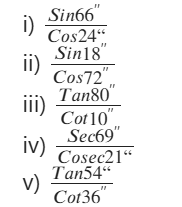
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vi) 2‾√ Sin 45° + Cos 90° + Sin 90°

1. Evaluate Cos 60°, Cos 30° – Sin 60° Sin 30°  
   What is the value of Cos (60° + 30°) ? What can you conclude ?
2. Is it right to say Sin (60° – 30°) = Sin 60°. Cos 30° – Cos 60°. Sin 30° ?
3. Is it right to say that Cos (A + B) = Cos A + Cos B ?
4. Solve



1. Find the value of  
   i) Sin 75° – Cos 15°  
   ii) Sec 23° – Cosec 67°  
   iii) Sec 70° – Sec 20°  
   iv) Tan 68° – Tan 22°
2. If Cot 2A = Tan (A – 18), when 2A is an acute angle, find the value of A.
3. If Cos 4A = Sin(A – 20), when 4A is an acute angle, find the value of A.
4. If Sin θ + Cosec θ = 2, find the value of Sin2 θ + Cosec2 θ
5. Solve



1. Show that (Sin θ + Cos θ)2 – (Sin θ – Cos θ)2 = 4 Sin θ Cos θ
2. Solve



1. Solve



1. Solve

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1. Evaluate : log4 (1 + tan2 45°)2
2. Is it true to say that cos (60°+30°) = cos 60° cos 30° + sin 60° sin 30°
3. In ∆ABC, ∠C = 90° If BC + CA = 17 cm; BC – CA = 7 cm. Find  
   (i) sin A  
   (ii) sin B
4. Find the value of cos2 1° + cos2 2° + cos2 3° + ……………. + cos2 90°
5. Solve



1. Solve

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