ONLINE COACHING - DAY 80 (17/04/2021 - SATURDAY)

Total points 20/20 ?

Topic : TRIGONOMETRY

0 of 0 points

SAI EDUCATION
KERALA
(A Complete Solution For All Competitive Examinations)

Name of the Candidate *

M5

Place of the candidate *

Thrissur

WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) *

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Please watch the following videos and answer the following questions

https://youtu.be/KWTB-rYDq9c
https://youtu.be/QqKlNL9AwhE

✓ 1. 1/sin θ = *   1/1

⦿ Cosec θ   ✓

◯ Sec θ

◯ Cot θ

◯ Tan θ

✓ 2. Sec θ = *   1/1

◯ 1/Cot θ

◯ 1/Cosec θ

⦿ 1/Cos θ   ✓

○ 1/Sin θ

✓ **3. Cot θ** *   1/1

○ 1/sec θ

○ 1/Sin θ

○ 1/Cosec θ

● 1/Tan θ   ✓

✓ **4. Opposite side / Hypotenuse** *   1/1

○ Sec θ

● Sin θ   ✓

○ Cos θ

○ Tan θ

✓ **5. Opposite Side / Adjacent side** *   1/1

○ Sec θ

○ Sin θ

○ Cos θ

● Tan θ   ✓

✓ Tan θ

✓ 6. Adjacent side / Hypotenuse * 1/1

○ Sec θ

○ Sin θ

◉ Cos θ ✓

○ Tan θ

✓ 7. * 1/1

○ 0

◉ 1 ✓

○ 2

○ -1

✓ 8. * 1/1

◉ 1 ✓

○ 0

○ Cosec θ

○ Sin ϴ

✓ 9. *   1/1

○ 0

◉ 1   ✓

○ Sec ϴ

○ Sin ϴ

✓ 10. The angle of elevation pf the sun when the length of the shadow of a   1/1
tree is √3 times the hight of the tree is ? *

○ 20°

◉ 30°   ✓

○ 45°

○ 60°

✓ 11. From a point ' P ' on a level ground the angle of elevation of the top of   1/1
a tower is 30°. If the tower is 100m hight the distance of point 'P' from
the foot of the tower is ? *

○ 150 m

○ 217 m

○ ~~~ ....

◉ 173 m   ✓

○ 200 m

✓ 12. The angle of elevation of ladder leaning against a wall is 60° and the   1/1
foot of the ladder is 4.6m away from the wall. The length of the ladder is?
*

◉ 9.2 m   ✓

○ 10 m

○ 12.2 m

○ 8.4 m

✓ 13. An observer 1.6m tall is 20√3 meter away from a tower. The angle of   1/1
elevation from his eye to the top of the tower is 30° . The hight of the
tower is *

○ 20 m

◉ 21.6 m   ✓

○ 22 m

○ 18.4 m

✓ 14. The angle of elevation of the top of a tower from a certain point is   1/1
30°. If the observer moves 20m towards the tower, the angle of elevation
of the top of the tower increses by 15°. The height of the tower is ? *

○ **27.3 m**   ✓

○ 22.5 m

○ 23.7 m

○ 20.7 m

✓ 15. Sin 30° *   1/1

○ 1

○ 0

○ √3/2

○ **1/2**   ✓

✓ 16. Cos 45° *   1/1

○ 1/2

○ **1/√2**   ✓

○ √3/2

○ √3/2

○ 0

✓ 17. tan 0° *   1/1

○ 1

○ infinity

◉ 0   ✓

○ √3

✓ 18. tan 45° *   1/1

◉ 1   ✓

○ √3

○ -1

○ 0

✓ 19. Cos 60° *   1/1

○ √3

○ √3/2

○ 1/√3

◉ 1/2   ✓

✓   20. Sin 90° *   1/1

○ 0

● 1   ✓

○ -1

○ 1/2

THANK YOU

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