

108 Days Online Coaching Day (73)~29/10/2020, THURSDAY

TRIGONOMETRY



NAME OF THE CANDIDATE *

M3

PLACE OF THE CANDIDATE *

KANNUR

PLEASE ENTER YOUR WHAT'S APP NO(JOINED IN THE SAI EDN OCT PLATFORM) *

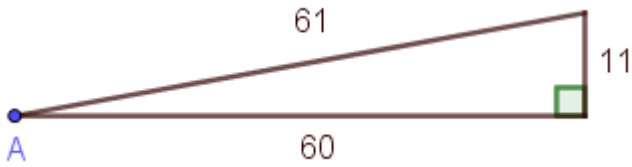
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PLEASE WATCH THE ONLINE CLASSES CAREFULLY AND NOTE DOWN IT IN YOUR DIARY
BEFORE SENDING THE ANSWERS

<https://www.youtube.com/watch?v=KWTB-rYDq9c>
<https://youtu.be/QgKINL9AwhE>

Q.1. $\sin(A) = *$

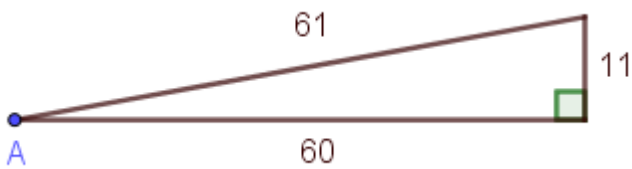
1 point



- 61/11
- 60/11
- 11/61
- 11/60

Q.2. $\tan(A) = *$

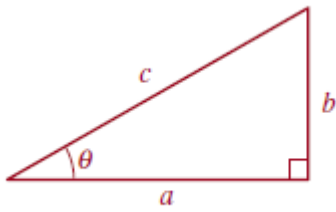
1 point



- 61/11
- 60/11
- 11/61
- 11/60

Q.3. $c=5$, $a = 4$ Find $b = ?$ and $\sin\theta=?$ *

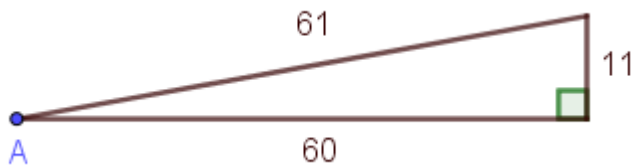
1 point



- $b=3$ $\sin\theta=4/5$
- $b=3$ $\sin\theta=3/5$
- $b=2$ $\sin\theta=2/5$
- $b=3$ $\sin\theta=1/5$

Q.4. $\cot(A) = *$

1 point



- $61/60$
- $11/60$
- $60/11$
- $61/11$

Q.5. The angle of elevation of the top of the building at a distance of 50 m from its foot on a horizontal plane is found to be 60 degree. Find the height of the building. * 1 point

- 85.3 m
- 86.4 m
- 86.6 m
- 83.5 m

Q.6. A ladder placed against a wall such that it reaches the top of the wall of height 6 m and the ladder is inclined at an angle of 60 degree. Find how far the ladder is from the foot of the wall * 1 point

- 3.264 m
- 3.464 m
- 3.124 m
- 3.654m

Q.7. From a point P on a level ground the angle of elevation of the top of a tower is 30 degree. If the tower is 100 m height the distance of point P from the foot of the tower is? * 1 point

- 158 m
- 165 m
- 173 m
- 184 m

Q.8: A string of a kite is 100 meters long and it makes an angle of 60° with horizontal. 1 point
Find the height of the kite, assuming that there is no slack in the string. *

- 30 $\sqrt{3}$ m
- 50 $\sqrt{3}$ m
- 54 $\sqrt{3}$ m
- 55 $\sqrt{3}$ m

Q.9: An observer 1.6 m tall is $20\sqrt{3}$ m away from a tower. The angle of elevation from his eye to the top of the tower is 30° . The height of the tower is? *

- 21.5 m
- 21.3 m
- 21.6 m
- 21.7 m

Q.10: $(\sin 30^\circ + \cos 30^\circ) - (\sin 60^\circ + \cos 60^\circ)$ * 1 point

- 1
- 1
- 0
- 2

Q.11: The Value of $\tan 30^\circ / \cot 60^\circ$ is: *

1 point

- $1/\sqrt{2}$
- $1/\sqrt{3}$
- $\sqrt{3}$
- 1

Q.12: If $\sin A = 1/2$ and $\cos B = 1/2$, then $A + B = ?$ *

1 point

- 0 degree
- 30 degree
- 90 degree
- 60 degree

Q.13: If a pole 6m high casts a shadow $2\sqrt{3}$ m long on the ground, then the sun's elevation is *

1 point

- 60 degree
- 45 degree
- 30 degree
- 90 degree

Q.14: A balloon is connected to a meteorological station by a cable of length 200 m inclined at 60 degree angle . Find the height of the balloon from the ground. (Imagine that there is no slack in the cable) * 1 point

- 173.2 m
- 173.1 m
- 174.5 m
- 173.6 m

Q.15: An aeroplane is observed to be approaching the airpoint. It is at a distance of 12 km from the point of observation and makes an angle of elevation of 50 degree. Find the height above the ground. * 1 point

- 9.18 km
- 9.634 km
- 9.192 km
- 9.234 km

Q.16: The angle of elevation of a ladder is leaning against a wall is 60 degree and the foot of ladder is 4.6 m away from the wall. The length of ladder? * 1 point

- 9.2 m
- 9.3 m
- 9.1 m
- 9.4 m

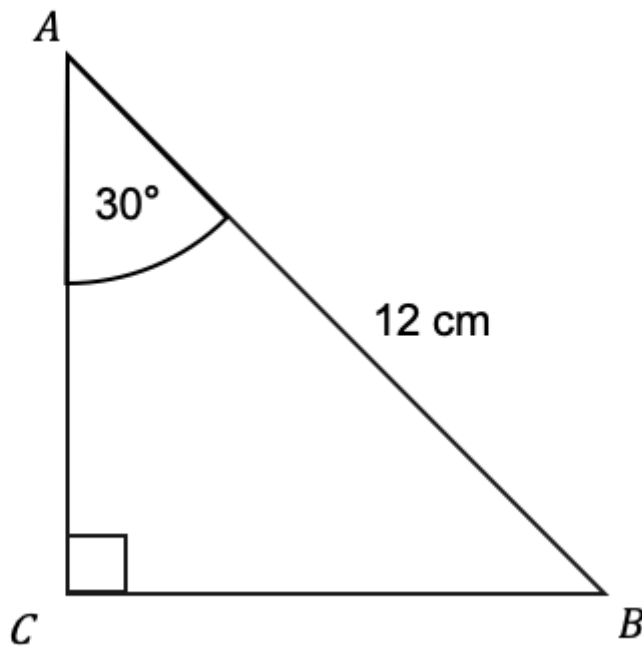
Q.17: A man standing at a point P is watching the top of elevation of 30 degree. The man walks some distance towards the town and then his angle of elevation of the top of the tower is 60 degree. If the height of the tower is 30 m then the distance he moves is? *

1 point

- 23√3 m
- 22√3 m
- 21√3 m
- 20√3 m

Q.18. ABC is a right angled triangle. Find the length of the side CB *

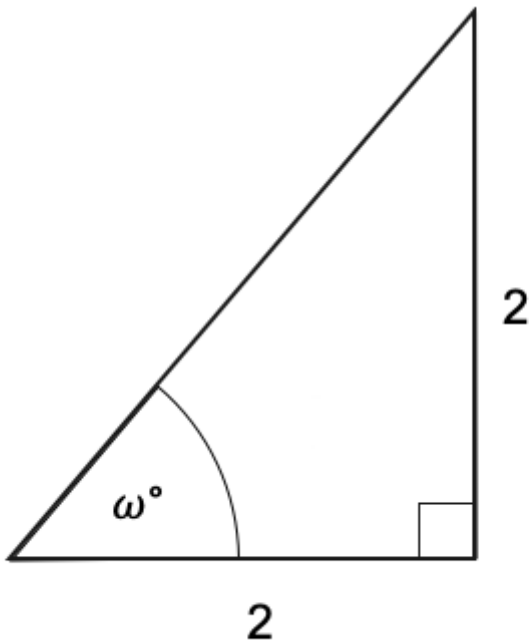
1 point



- 8 cm
- 6 cm
- 7 cm
- 6.5 cm

Q.19: Write down the exact value of $\sin(\omega)$. *

1 point



- $1/\sqrt{2}$
- $3/\sqrt{2}$
- $1/\sqrt{3}$
- $\sqrt{2}/3$

Q.20: If $\cos A = 4/5$, then $\tan A = ?$ *

1 point

- $3/4$
- $3/5$
- $4/3$
- $4/5$

THANK YOU

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