# ©゙"doubtnut 

## MATHS

# BOOKS - SURA MATHS (TAMIL ENGLISH) 

## TRIGONOMETRY

Execrise 51

1. Prove that following identities
$\cot \theta+\tan \theta=\sec \theta \operatorname{cosec} \theta$

- Watch Video Solution

2. Prove that following identities
$\tan ^{4} \theta+\tan ^{2} \theta=\sec ^{4} \theta-\sec ^{2} \theta$

## - Watch Video Solution

3. Prove that following identities
$\frac{1-\tan ^{2} \theta}{\cot ^{2} \theta-1}=\tan ^{2} \theta$

## - Watch Video Solution

4. Prove that following identities
$\frac{\cos \theta}{1+\sin \theta}=\sec \theta-\tan \theta$
5. Prove that following identities
$\sqrt{\frac{1+\sin \theta}{1-\sin \theta}}=\sec \theta+\tan \theta$

## - Watch Video Solution

6. Prove that following identities
$\sqrt{\frac{1+\sin \theta}{1-\sin \theta}}+\sqrt{\frac{1-\sin \theta}{1+\sin \theta}}=2 \sec \theta$

## - Watch Video Solution

7. Prove that following identities
$\sec ^{6} \theta=\tan ^{4} \theta+3 \tan ^{2} \theta \sec ^{2} \theta+1$
8. Prove that following identities
$(\sin \theta+\sec \theta)^{2}+(\cos \theta+\operatorname{cosec} \theta)^{2}=1+(\sec \theta+\operatorname{cosec} \theta)^{2}$

- Watch Video Solution

9. Prove that following identities
$\sec ^{4} \theta\left(1-\sin ^{4} \theta\right)-2 \tan ^{2} \theta=1$

## - Watch Video Solution

10. Prove that following identities
$\frac{\cot \theta-\cos \theta}{\cot \theta+\cos \theta}=\frac{\operatorname{cosec} \theta-1}{\operatorname{cosec} \theta+1}$
11. Prove that following identities

$$
\frac{\sin A-\sin B}{\cos A+\cos B}+\frac{\cos A-\cos B}{\sin A+\sin B}=0
$$

## - Watch Video Solution

12. Prove that following identities $\frac{\sin ^{3} A+\cos ^{3}}{\sin A+\cos A}+\frac{\sin ^{3} A-\cos ^{3} A}{\sin A-\cos A}=2$

## - Watch Video Solution

13. If $\sin \theta+\cos \theta=\sqrt{3}$, then prove that $\tan \theta+\cot \theta=1$
14. If $\sqrt{3} \sin \theta-\cos \theta=0$, then show that $\tan 3 \theta=\frac{3 \tan \theta-\tan ^{3} \theta}{1-3 \tan ^{3} \theta}$

## D Watch Video Solution

15. If $\frac{\cos \alpha}{\cos \beta}=m$ and $\frac{\cos \alpha}{\sin \beta}=n$ then prove that $\left(m^{2}+n^{2}\right) \cos ^{2} \beta=n^{2}$.

## D Watch Video Solution

16. If $\cot \theta+\tan \theta=x$ and $\sec \theta-\cos \theta=y$ then prove that $\left(x^{2} y\right)^{\frac{2}{3}}-\left(x y^{2}\right)^{\frac{2}{3}}=1$
17. If $\sin \theta+\cos \theta=p$ and $\sec \theta+\cos \theta=q$, then prove that $q\left(p^{2}-1\right)=2 p$

## - Watch Video Solution

18. If $\sin \theta\left(1+\sin ^{2} \theta\right)=\cos ^{2} \theta$, then prove that $\cos ^{6} \theta-4 \cos ^{2} \theta+8 \cos ^{2} \theta=4$

## - Watch Video Solution

19. If $\frac{\cos \theta}{1+\sin \theta}=\frac{1}{a}$ then prove that $\frac{a^{2}-1}{a^{2}+1}=\sin \theta$.
20. Find the angle of elevation of the top of a tower from a point on the ground, which is 30 m away the foot of a tower of height $10 \sqrt{3} \mathrm{~m}$.

## - Watch Video Solution

2. A road is flanked on either side by continuous rows of house of height $4 \sqrt{3} \mathrm{~m}$ with no space in between them. A pedestrain is standing on the median of the road facing a row house. The angle of elevationn from the pedestrain to the top of the house is $30^{\circ}$. Find the width of the road.
3. To a man standing outside his house. The angles of elevation of the top and bottom of a window are $60^{\circ}$ and $45^{\circ}$ respectively. If the height of the man is 180 cm and if he is 5 m away from the wall. What is the height of the window? $(\sqrt{3}=1.732)$.

## - Watch Video Solution

4. A statue 1.6 m tall stands on the top of a pedestal. From a point on the ground, the angle of elevation of the top of the statue is $60^{\circ}$ and from the same point angle of elevation of the top of the pedestal is $40^{\circ}$. Find the height of the pedestal. $\left(\tan 40^{\circ}=0.8931, \sqrt{3}=1.732\right)$

## - Watch Video Solution

5. A flog pole ' $h$ ' metres is on the top of the hemispherical dome of radius 'r' metres. A man is standing 7m away form the dome. Seeing the top of the pole at an angle $45^{\circ}$ and moving 5 m away from the dome and seeing the bottom of the pole at angle $30^{\circ}$. Find the height of the pole

## D Watch Video Solution

6. A flog pole ' $h$ ' metres is on the top of the hemispherical dome of radius 'r' metres. A man is standing 7m away form the dome. Seeing the top of the pole at an angle $45^{\circ}$ and
moving 5 m away from the dome and seeing the bottom of the pole at angle $30^{\circ}$. Find
radius of the dome.

## D Watch Video Solution

7. The top of a 15 m high tower make an angle of elevation of $60^{\circ}$ with the bottom of an electronic pole and angle of elevation of $30^{\circ}$ with the top of the pole. What is the height of the electric pole?

## - Watch Video Solution

8. A vertical pole fixed to the ground is divided in the ratio

1:9 by a mark on it with lower part shorter than the upper
part. If the two parts subtend equal angles at a place on the ground, 25 m away from the base of the pole, what is the height of the pole?

## D Watch Video Solution

9. A traveler approaches a mountain on highway. He measures the angle of elevation to the peak at each milestone. At two consecutive milestones the angles measured are $4^{\circ}$ and $8^{\circ}$. What is the height of the peak if the distance between consecutive milestones is 1 mile.
$\left(\tan 4^{\circ}=0.0699, \tan 8^{\circ}=0.14405\right)$

## - Watch Video Solution

1. From the top of a rock $50 \operatorname{sqr}(3) \mathrm{m}$ high, the angle of depression of car on the ground is observed to be $30^{\circ}$.

Find the distance of the car from the rock.

## - Watch Video Solution

2. The horizontal distance between two building is 70 m .

The angle of depression of the top of the first building when seen from the top of the second building is $45^{\circ}$. If the height of the second building is 120 m , find the height of the first building.
3. From the top of the tower 60 m high the angles of depression of the top and bottom of a vertical lamp post are observed to be $38^{\circ}$ and $60^{\circ}$ respectively. Find the height of the lamp post. $\left(\tan 38^{\circ}=0.7813, \sqrt{3}=1.732\right)$

## - Watch Video Solution

4. An aeroplane at an altitude of 1800 m finds that two boats are selling towards it in the same direction. The angles of depressionn of the boats as obversed from the aeroplane are $60^{\circ}$ and $30^{\circ}$ respectively. Find the distance between the two boats. $(\sqrt{3}=1.732)$.
5. From the top of a lighhouse, the angles of depression of two ships on the opposite sides of it are observed to be
$30^{\circ}$ and $60^{\circ}$. If the height of the lighthouse is $h$ meters and thhe line joining the ships passes through the foot of the lighthouse. show that the distance between the ships is $\frac{4 h}{\sqrt{3}} \mathrm{~m}$.

## - Watch Video Solution

6. A lift in a building of height 90 feet with transparent
glass walls is descending from the top of the building. At the top of the building, the angles of depression to a fountain in the garden is $60^{\circ}$. Two minutes later, the angle of depression reduces to $30^{\circ}$. If the fountain is $30 \sqrt{3}$ feet
from the entrace of the lift, find the speed of the lift, and the speed of the lift which is descending.

## - Watch Video Solution

## Execrise 54

1. From the top of tree of height 13 m the angle of elevation and depression of the top and bottom of another tree are $45^{\circ}$ and $30^{\circ}$ respectively. Find the height of the seconds tree. $(\sqrt{3}=1.732)$.

## - Watch Video Solution

2. A man is standing on the deck of a ship, which is 40 m above water level. He observes the angle of elevation of the top of a hill as $60^{\circ}$ and the angle depression of the base of the hill as $30^{\circ}$. Calculate the distance of the hill from the ship and the height of the hill, $(\sqrt{3}=1.732)$.

## - Watch Video Solution

3. If the angle of elevation of a cloud from a point ' $h$ ' meterss above a take is $\theta_{1}$ and the angle of depression of its reflection in the take is $\theta_{2}$. Prove that the height that the cloud is located from the ground is $\frac{h\left(\tan \theta(1)+\tan \theta_{2}\right)}{\tan \theta_{2}-\tan \theta_{2}}$.
4. The angle of elevation of the top of cell phone tower from the foot of a high apartment is $60^{\circ}$ and the angle of depression of the foot of the tower from the top of the apartment is $30^{\circ}$. If the height of the apartment is 50 m , find the height of the cell tower. According to radiations control norms, the minimum height of the cell phone tower should be 120m. State if the height of the above mentioned cell phone tower meets the radiation norms.

## D Watch Video Solution

5. The angles of elevation and depression of the top and bottom of a lamp post from the top of a 66 m high
apartment are $60^{\circ}$ and $30^{\circ}$ respectively, find

The height of the lamp post.

## D Watch Video Solution

6. The angles of elevation and depression of the top and bottom of a lamp post from the top of a $66 m$ high apartment are $60^{\circ}$ and $30^{\circ}$ respectively, find

The difference between height of the lamp post and the apartment.

## D Watch Video Solution

7. The angles of elevation and depression of the top and bottom of a lamp post from the top of a $66 m$ high
apartment are $60^{\circ}$ and $30^{\circ}$ respectively, find

The distance between the lamp post and the apartment $(\sqrt{3}=1.773)$.

## D Watch Video Solution

8. Three villagers $A, B$ and $C$ can see each other across a valley. The horizontal distance between $A$ and $B$ is 8 km and the horizontal distance between $B$ and $C$ is 12 km . The angle of depression of $B$ from $A$ is $20^{\circ}$ and the angle of elevation of $C$ from $B$ is $30^{\circ}$. Calculate:
the vertical between $A$ and $B$.

## - Watch Video Solution

9. Three villagers $A, B$ and $C$ can see each other across a valley. The horizontal distance between $A$ and $B$ is 8 km and the horizontal distance between $B$ and $C$ is 12 km . The angle of depression of $B$ from $A$ is $20^{\circ}$ and the angle of elevation of $C$ from $B$ is $30^{\circ}$. Calculate:

The vertical height between

B and C.
$\left(\tan 20^{\circ}=0.3640, \sqrt{3}=1.732\right)$.

## - Watch Video Solution

Execrise 55

1. The value of $\sin ^{2} \theta+\frac{1}{1+\tan ^{2} \theta}$ is equal to
A. $\tan ^{2} \theta$
B. 1
C. $\cot ^{2} \theta$
D. 0

## Answer: B

## D Watch Video Solution

2. $\tan \theta \operatorname{cosec} 2$ - $\tan \theta$ is equal to
A. $\sec \theta$
B. $\cot ^{2} \theta$
C. $\sin \theta$
D. $\cot \theta$

Answer: D

## D Watch Video Solution

3. Prove the following identities:
$(\sin \alpha+\cos e c \alpha)^{2}+(\cos \alpha+\sec \alpha)^{2}=\tan ^{2} \alpha+\cot ^{2} \alpha+7$
A. 9
B. 7
C. 5
D. 3

## - Watch Video Solution

4. If $\sin \theta+\cos \theta=a$ and $\sec \theta+\operatorname{cosec} \theta=b$, then the value of $b\left(a^{2}-1\right)$ is equal to
A. $2 a$
B. $3 a$
C. 0
D. $2 a b$

Answer: B
5. If $5 x=\sec \theta$ and $\frac{5}{x}=\tan \theta$, then $x^{2}-\frac{1}{x^{2}}$ is equal to
A. 25
B. $\frac{1}{25}$
C. 5
D. 1

## Answer: B

- Watch Video Solution

6. If $\sin \theta=\cos \theta$ then $2 \tan \theta+\cos ^{2} \theta=$
A. $\frac{-3}{2}$
B. $\frac{3}{2}$
C. $\frac{2}{3}$
D. $\frac{-2}{3}$

Answer: B

## D Watch Video Solution

7. If $x=a \tan \theta$ and $y=b \sec \theta$ then
A. $\frac{y^{2}}{b^{2}}-\frac{x^{2}}{a^{2}}=1$
B. $\frac{x^{2}}{a^{2}}-\frac{y^{2}}{b^{2}}=1$
C. $\frac{x^{2}}{a^{2}}-\frac{y^{2}}{b^{2}}=1$
D. $\frac{x^{2}}{a^{2}}-\frac{y^{2}}{b^{2}}=0$

Answer: A

## - Watch Video Solution

8. $(1+\tan \theta+\sec \theta)(1+\cot \theta-\cos e c \theta)$ is equal to
A. 0
B. 1
C. 2
D. -1

Answer: C

- Watch Video Solution

9. $a \cot \theta+b \cos e c \theta=p$ and $b \cot \theta+a \cos e c \theta=q$ then $p^{2}-q^{2}$ is equal to
A. $a^{2}-b^{2}$
B. $b^{2}-a^{2}$
C. $a^{2}+b^{2}$
D. $b-a$

Answer: B

## D Watch Video Solution

10. If the ratio of the height of a tower and the length of its shadow is $\sqrt{3}: 1$, then the angle of elevation of the sum had measure.
A. $45^{\circ}$
B. $30^{\circ}$
C. $90^{\circ}$
D. $60^{\circ}$

## Answer: D

## D Watch Video Solution

11. The electric pole subtends an angle of $30^{\circ}$ at a point on the same level as its foot. At a second point 'b' metres above the first, the depression of the foot of the tower is $60^{\circ}$. The height of the tower (in towers) is equal to
A. $\sqrt{6} b$
B. $\frac{b}{3}$
C. $\frac{b}{2}$
D.

## Answer: B

## D Watch Video Solution

12. A tower is 60 m height. Its show is x metres shorter when the sun's altitude is $45^{\circ}$ than when it has been $30^{\circ}$, then $x$ is equal to
A. 41.92 m
B. 43.92 m
C. 43 m
D. 45.6 m

Answer: B

## D Watch Video Solution

13. The angle of depression of the top and bottom of 20 m tall building from the top of a multistorised building are
$30^{\circ}$ and $60^{\circ}$ respectively. The height of the multistoried building and the distances between two building (in metres ) is
A. $20,10 \sqrt{2}$
B. $30,50 \sqrt{3}$
C. 20,10

## Answer: D

## - Watch Video Solution

14. Two persons are standing 'x' metres apart from each other and the height of the first person is double that of the other. If from the middle points of the linejoining their their feet an observe finds the angular elevations of their tops to be complementary, then the height of the shorter person (in metres) is
A. $\sqrt{2} x$
B. $\frac{x}{2 \sqrt{2}}$
C. $\frac{x}{\sqrt{2}}$
D. $2 x$

## Answer: B

## - Watch Video Solution

15. The angle of elevation of a cloud from a point $h$ metres above a lake is $\beta$. The angle of depression of its reflection in the lake is $45^{\circ}$. The height of location of the cloud from the lake is
A. $\frac{h(1+\tan \beta)}{1-\tan \beta}$
B. $\frac{h(1-\tan \beta)}{1+\tan \beta}$
C. $h \tan \left(45^{\circ}-\beta\right)$
D. None of these

Answer: A

## - Watch Video Solution

## Unit Exercise 6

1. Prove that

$$
\cot ^{2} A((\sec A-1) /(1+\sin A))+\sec ^{2} A\left(\frac{\sin A-1}{1+\sec A}\right)=0
$$

2. Prove that
$\frac{\tan ^{2} \theta-1}{\tan ^{2} \theta+1}=1-2 \cos ^{2} \theta$

## - Watch Video Solution

3. Prove that $\left(\frac{1+\sin \theta-\cos \theta}{1+\sin \theta+\cos \theta}\right)^{2}=\frac{1-\cos \theta}{1+\cos \theta}$

## D Watch Video Solution

4. If $x \sin ^{3} \theta+y \cos ^{3} \theta=\sin \theta \cos \theta$ and $x \sin \theta=y \cos \theta$, then prove that $x^{2}+y^{2}=1$.
5. If $\mathrm{a} \cos \theta-\mathrm{b} \sin \theta=\mathrm{c}$, show that $\mathrm{a} \sin \theta+\mathrm{b} \cos$ $\theta= \pm \sqrt{a^{2}+b^{2}-c^{2}}$

## D Watch Video Solution

6. $A$ bird is sitting on the top of a 80 m high tree. From a point on the ground, the angle of elevation of the bird is $45^{\circ}$. The bird fies away horizontallly in such away that it remained at a constant height from the ground. After 2
seconds, the angle
7. An aeroplane is flying parallel to the Earth's surface at a speed of $175 \mathrm{~m} / \mathrm{sec}$ and at a height of 600 m . The anlge elevation of the aeroplane from a point on the Earth's surface is $37^{\circ}$ at a given point. After what period of time does the angle of elevation increase to $53^{\circ}$ ? $\left(\tan 53^{\circ}=1.3270, \tan 37^{\circ}=0.7536\right)$.

## - Watch Video Solution

8. A bird is flying from A towards B at an angle of $35^{\circ}$, a point 30 km away from $A$. At $B$ it charges its course of flight and heads towards $C$ on a bearing of $48^{\circ}$ and distance 32 km away.

How far is B to the North of $A$ ?
9. A bird is flying from $A$ towards $B$ at an angle of $35^{\circ}$, a point 30 km away from A. At B it charges its course of flight and heads towards C on a bearing of $48^{\circ}$ and distance 32 km away. How far is B tp the West of $A$ ?

## - Watch Video Solution

10. A bird is flying from A towards B at an angle of $35^{\circ}$, a point 30 km away from A. At B it charges its course of flight and heads towards C on a bearing of $48^{\circ}$ and distance 32 km away.

How far is C to the North of B ?

## D Watch Video Solution

11. A bird is flying from A towards B at an angle of $35^{\circ}$, a point 30 km away from $A$. At $B$ it charges its course of flight and heads towards C on a bearing of $48^{\circ}$ and distance 32 km away. How far is $C$ to the East of $B$ ?

## D Watch Video Solution

12. Two ships are sailing in the sea on either side of the
lighthouse. The angles of depression of two ships as observed from the top of the lighthouse are $60^{\circ}$ and $45^{\circ}$
respectively. If the distance between the ship is
$200 \frac{(\sqrt{3}+1)}{\sqrt{3}}$ metres, find the height of the lighthouse.

## D View Text Solution

13. A building and a statue are in opposite side of a street
from each other $35 m$ apart. From a point on the roof of building the angle of elevationof the top of statue is $24^{\circ}$ and the angle of depression of base of base of the statue is $34^{\circ}$. Find the height of the statue.
$\left(\tan 24^{\circ}=0.4452, \tan 34^{\circ}=0.6745\right)$.

## D Watch Video Solution

1. $\cos 60^{\circ} \sin 30^{\circ}+\cos 30^{\circ} \sin 60^{\circ}=$
A. $90^{\circ}$
B. $\frac{1}{2}$
C. $\frac{\sqrt{3}}{2}$
D. 1

## Answer: D

## D Watch Video Solution

2. Prove that : $\sqrt{\frac{1+\cos \theta}{1-\cos \theta}}=\operatorname{cosec} \theta+\cot \theta$.
3. From a point on the ground, the angle of at the top of a 30 m high building are $45^{\circ}$ and $60^{\circ}$ respectively. Find the height of the tower. $(\sqrt{3}=1.732)$.

## - Watch Video Solution

## Additional Question Answers

1. Prove that $\sec A(1-\sin A)(\sec A+\tan A)=1$.

## - Watch Video Solution

2. Given $\tan A=\frac{4}{3}$, find the other trigonometric ratios of the angles A .

## - Watch Video Solution

3. Prove that $\frac{\sin \theta-\cos \theta+1}{\sin \theta+\cos \theta-1}=\frac{1}{\sec \theta-\tan \theta}$. using the identity $\sec ^{2} \theta=1+\tan ^{2} \theta$.

## - Watch Video Solution

4. In a right triangle $A B C$, right angled at $B$, if $\tan A=1$, then verify that ${ }^{2} 2 \sin A \cos A=1$.
5. From a point on a bridge across a river. The angles of depression of the banks on opposite sides at the river are $30^{\circ}$ and $45(\circ)$ respectively. If the bridger is at a height at 3 m from the banks, find the width at the river.

## D Watch Video Solution

## Unit Test

1. $\tan \theta \operatorname{cosec} 2-\tan \theta$ is equal to
A. $\sec \theta$
B. $\cot ^{2} \theta$
C. $\sin \theta$
D. $\cot \theta$

Answer: D

## - Watch Video Solution

2. If $\sin \theta+\cos \theta=a$ and $\sec \theta+\operatorname{cosec} \theta=b$, then the value of $b\left(a^{2}-1\right)$ is equal to
A. $2 a$
B. $3 a$
C. 0
D. $2 a b$

Answer: A

## - Watch Video Solution

3. Two persons are standing 'x' metres apart from each other and the height of the first person is double that of the other. If from the middle points of the linejoining their their feet an observe finds the angular elevations of their tops to be complementary, then the height of the shorter person (in metres) is
A. $\sqrt{2} x$
B. $\frac{x}{2 \sqrt{2}}$
C. $\frac{x}{\sqrt{2}}$
D. $2 x$
4. If the ratio of the height of a tower and the length of its shadow is $\sqrt{3}: 1$, then the angle of elevation of the sum had measure.
A. $45^{\circ}$
B. $30^{\circ}$
C. $90^{\circ}$
D. $60^{\circ}$

## Answer: D

5. The angle of elevation of a cloud from a point $h$ metres above a lake is $\beta$. The angle of depression of its reflection in the lake is $45^{\circ}$. The height of location of the cloud from the lake is
A. $\frac{h(1+\tan \beta)}{1-\tan \beta}$
B. $\frac{h(1-\tan \beta)}{1+\tan \beta}$
C. $h \tan \left(45^{\circ}-\beta\right)$
D. None of these

Answer: A
6. Prove that following identities
$\sec ^{6} \theta-\tan ^{6} \theta-3 \tan ^{2} \theta \sec ^{2} \theta=1$

## - Watch Video Solution

7. Prove that following identities
$(\sin \theta+\sec \theta)^{2}+(\cos \theta+\operatorname{cosec} \theta)^{2}=1+(\sec \theta+\operatorname{cosec} \theta)^{2}$

## - Watch Video Solution

8. A flog pole ' $h$ ' metres is on the top of the hemispherical
dome of radius ' $r$ ' metres. A man is standing 7 m away form
the dome. Seeing the top of the pole at an angle
$45^{\circ}$ and moving 5 m away from the dome and seeing the
bottom of the pole at angle $30^{\circ}$. Find the height of the pole

## - Watch Video Solution

9. A flog pole ' $h$ ' metres is on the top of the hemispherical dome of radius 'r' metres. A man is standing 7m away form the dome. Seeing the top of the pole at an angle $45^{\circ}$ and moving 5 m away from the dome and seeing the bottom of the pole at angle $30^{\circ}$. Find radius of the dome.
10. The horizontal distance between two building is 70 m .

The angle of depression of the top of the first building when seen from the top of the second building is $45^{\circ}$. If the height of the second building is 120 m , find the height of the first building.

## - Watch Video Solution

11. If $x \sin ^{3} \theta+y \cos ^{3} \theta=\sin \theta \cos \theta$ and $x \sin \theta=y \cos \theta$ , then prove that $x^{2}+y^{2}=1$.

## Watch Video Solution

12. A lift in a building of height 90 feet with transparent glass walls is descending from the top of the building. At the top of the building, the angles of depression to a fountain in the garden is $60^{\circ}$. Two minutes later, the angle of depression reduces to $30^{\circ}$. If the fountain is $30 \sqrt{3}$ feet from the entrace of the lift, find the speed of the lift, and the speed of the lift which is descending.

## - Watch Video Solution

13. Prove that following identities
$\frac{1-\tan ^{2} \theta}{\cot ^{2} \theta-1}=\tan ^{2} \theta$

## D Watch Video Solution

14. A bird is sitting on the top of a 80 m high tree. From a point on the ground, the angle of elevation of the bird is
$45^{\circ}$. The bird flies away horizontally in such away that it remained at a constant height from the ground. After 2 seconds, the angle

## - Watch Video Solution

