

PRACTICE PROBLEM MODULE 3 - PLANE & SPHERICAL TRIGONOMETRY

1) Simplify: $\sec \theta - \sec \theta \sin^2 \theta$
 SOLN:

$$\begin{aligned}\sec \theta - \sec \theta \sin^2 \theta \\ \sec \theta (1 - \sin^2 \theta) \\ \frac{1}{\cos \theta} (\cos^2 \theta) \\ \cos \theta\end{aligned}$$

2) The value of $\tan(A+B)$, where $\tan A = \frac{1}{2}$ and $\tan B = \frac{1}{3}$ is _____ . A and B are acute angle.

SOLN:

$$\begin{aligned}A &= \tan^{-1}\left(\frac{1}{2}\right) = 12.49^\circ \\ B &= \tan^{-1}\left(\frac{1}{3}\right) = 14.04^\circ\end{aligned}$$

$$\begin{aligned}\tan(A+B) &= \tan(12.49^\circ + 14.04^\circ) \\ \tan(A+B) &= \frac{7}{12}\end{aligned}$$

3) If $\sec A = -\frac{5}{4}$ and A is in the second quadrant, find $\tan 2A$.

SOLN:

$$\begin{aligned}A &= \sec^{-1}\left(-\frac{5}{4}\right) = 143.18^\circ \text{ (Q2)} \\ \tan 2A &= \tan 2(143.18^\circ) \\ \tan 2A &= -\frac{24}{7}\end{aligned}$$

4) Given the function $y = \sin(3x - 2\pi)$, identify the ff:

- amplitude
- period
- frequency
- phase shift
- vertical shift
- asymptote

• amplitude = UNDEFINED
 • period = $\frac{2\pi}{3}$

• frequency = $\frac{3}{2\pi}$

• phase shift = $\frac{2\pi}{3}$

• vertical shift = 0

• asymptote = $3x - 2\pi = \frac{\pi}{2} + \pi k$
 $x = \frac{\pi/2 + \pi k + 2\pi}{3}$
 $x = \frac{\pi}{9} \left(\frac{5}{2} + k\right)$

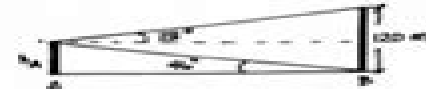
5) Find the amplitude of $y = 3 \cos x + 5 \sin x$
 SOLN:

$$\begin{aligned}a &= \sqrt{3^2 + 5^2} \\ a &= \sqrt{34}\end{aligned}$$

6) What is the first period of $7 \cos 3x$?
 $\frac{2\pi}{3}$

7) The angle of elevation of the top of a building B from the top of building A is 28° and the angle of elevation of the top of building A from the base of building B is 46° . If building B is 120 m high, determine the height of building A. Assume both buildings lie in the same horizontal plane.

SOLN:



$$\begin{aligned}d_1 &= d_2 \\ \frac{h_A}{\tan 46^\circ} &= \frac{120 - h_A}{\tan 28^\circ} \\ h_A &= 79.29 \text{ m}\end{aligned}$$

8) A man found that the angle of elevation of the top of the tower to be 30° . He walks 25 m nearer the tower and finds its angle of elevation to be 60° . What is the height of the tower?

SOLN:

$$\begin{aligned}x \tan 30^\circ &= (x - 25) \tan 60^\circ \\ x &= 127.5 \text{ m} \\ h &= x \tan 30^\circ \\ h &= (127.5) \tan 30^\circ \\ h &= 73.61 \text{ m}\end{aligned}$$

9) A tower and a monument stand in a level plane. The angles of depression of the top and bottom of the monument viewed from the top of the tower are 15° and 30° respectively. The height of the tower is 100 ft. Find the height of the monument.

SOLN:

$$\begin{aligned}d_1 &= d_2 \\ \frac{100 - h_m}{\tan 15^\circ} &= \frac{100}{\tan 30^\circ} \\ h_m &= 81.27 \text{ ft.}\end{aligned}$$

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Trigonometry Practice Problems With Solutions Book Review: Unveiling the Magic of Language

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Table of Contents Trigonometry Practice Problems With Solutions

1. Understanding the eBook Trigonometry Practice Problems With Solutions
 - The Rise of Digital Reading Trigonometry Practice Problems With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometry Practice Problems With Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trigonometry Practice Problems With Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometry Practice Problems With Solutions
 - Personalized Recommendations
 - Trigonometry Practice Problems With Solutions User Reviews and Ratings
 - Trigonometry Practice Problems With Solutions and Bestseller Lists

5. Accessing Trigonometry Practice Problems With Solutions Free and Paid eBooks
 - Trigonometry Practice Problems With Solutions Public Domain eBooks
 - Trigonometry Practice Problems With Solutions eBook Subscription Services
 - Trigonometry Practice Problems With Solutions Budget-Friendly Options
6. Navigating Trigonometry Practice Problems With Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Trigonometry Practice Problems With Solutions Compatibility with Devices
 - Trigonometry Practice Problems With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trigonometry Practice Problems With Solutions
 - Highlighting and Note-Taking Trigonometry Practice Problems With Solutions
 - Interactive Elements Trigonometry Practice Problems With Solutions
8. Staying Engaged with Trigonometry Practice Problems With Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trigonometry Practice Problems With Solutions
9. Balancing eBooks and Physical Books Trigonometry Practice Problems With Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trigonometry Practice Problems With Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Trigonometry Practice Problems With Solutions
 - Setting Reading Goals Trigonometry Practice Problems With Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Trigonometry Practice Problems With Solutions
 - Fact-Checking eBook Content of Trigonometry Practice Problems With Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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