PRACTICE PROBLEM MODULE 3 – PLANE & SPHERICAL TRIGONOMETRY

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

SOLN:

$\sec\theta - \sec\theta \sin^2\theta$

$\sec\theta (1 - \sin^2\theta)$

$\frac{1}{\cos\theta}(\cos^2\theta)$

$\cos\theta$

2) The value of $\tan(A+B)$, where $\tan A = \frac{5}{6}$ and $\tan B = \frac{3}{4}$ is _____. A and B are acute angle.

SOLN:

$A = \tan^{-1}(\frac{5}{6}) = 42.49°$

$B = \tan^{-1}(\frac{3}{4}) = 14.04°$

$\tan(A+B) = \tan(42.49° + 14.04°)$

$\tan(A+B) = \frac{9}{8}$

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

SOLN:

$A = \sec^{-1}(-\frac{5}{4}) = 143.13°$ (QII) ✓

$\tan 2(\theta) = \tan 2(143.13°)$

$\tan 2\theta = -\frac{24}{7}$

4) Given the function $2\sin(3x - 2\pi)$, identify the "if":

a) amplitude
b) period
c) frequency
d) phase shift
e) vertical shift
f) asymptote

- amplitude = UNDEFINED
- period = $\frac{2\pi}{3}$
- frequency = $\frac{3}{2\pi}$
- phase shift = $\frac{2\pi}{3}$
- vertical shift = 0
- asymptote = $3x - 2\pi = \frac{\pi}{2} + \pi k$

$x = \frac{\frac{\pi}{2} + \pi k + 2\pi}{3}$

$x = \frac{\pi}{6}(\frac{5}{2} + k)$

5) Find the amplitude of $y = 9\cos x + 5\sin x$

SOLN:

$a = \sqrt{9^2 + 5^2}$

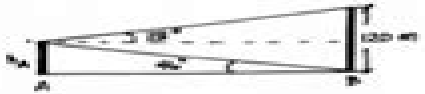
$a = \sqrt{94}$

6) What is the first period of $7\cos 9x$?

$2\pi/9$

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 45°. If building B is 120 m high, determine the height of building A. Assume both buildings lie in the same horizontal plane.

SOLN:



$d_1 = d_2$

$\frac{h_A}{\tan 45°} = \frac{120 - h_A}{\tan 28°}$

$h_A = 79.29$ m

8) A scout found that the angle of elevation of the top of the tower to be 50°. He walks 25 m closer the tower and finds its angle of elevation to be 60°. What is the height of the tower?

SOLN:

$x \tan 50° = (x - 25)\tan 60°$

$x = 82.58$ m

$h = x \tan 50°$

$h = (82.5)\tan 50°$

$h = 79.61$ m

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 21° respectively. The height of the tower is 80 ft. Find the height of the monument.

SOLN:

$d_1 = d_2$

$\frac{80 - h_M}{\tan 21°} = \frac{80}{\tan 15°}$

$h_M = 81.27$ ft.

Trigonometry Questions And Solutions

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