

Chapter 7 Test, Form 2C

1. Simplify $\frac{\sin \theta}{\tan \theta}$.

$$\frac{\sin \theta}{\frac{\sin \theta}{\cos \theta}} = \sin \theta \cdot \frac{\cos \theta}{\sin \theta}$$

1. $\cos \theta$

2. If $\cos \theta = -\frac{4}{5}$ and $90^\circ < \theta < 180^\circ$, find $\cot \theta$.



2. $-\frac{4}{3}$

3. Simplify $\sec^2 \theta - \tan^2 \theta$.

* Identity: $\sec^2 \theta = 1 + \tan^2 \theta$

So... $\sec^2 \theta - \tan^2 \theta = 1$

3. 1

4. Simplify $\frac{\sin^2 \theta + \cos^2 \theta}{\tan^2 \theta + 1}$.

$$= \frac{1}{\sec^2 \theta} = \cos^2 \theta$$

4. $\cos^2 \theta$

5. If $\tan x \cos x = \frac{1}{2}$, find the value of $\sin x$.

$$\frac{\sin x}{\cos x} \cos x = \frac{1}{2}$$

5. $\frac{1}{2}$

6. Use a sum or difference identity to find the exact value of $\cos 15^\circ$.

$$\cos(45^\circ - 30^\circ) = \cos 45^\circ \cos 30^\circ + \sin 45^\circ \sin 30^\circ$$

$$= \left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{3}}{2}\right) + \left(\frac{\sqrt{2}}{2}\right)\left(\frac{1}{2}\right)$$

6. $\frac{\sqrt{6} + \sqrt{2}}{4}$

7. Find the value of $\tan(\alpha + \beta)$ if $\cos \alpha = \frac{5}{13}$, $\sin \beta = \frac{3}{5}$, $0^\circ < \alpha < 90^\circ$, and $0^\circ < \beta < 90^\circ$.



$$\frac{\tan A + \tan B}{1 - \tan A \tan B} = \frac{\frac{12}{5} + \frac{3}{4}}{1 - \frac{12}{5}\left(\frac{3}{4}\right)} = \frac{\frac{63}{20}}{\frac{-16}{20}} = -\frac{63}{16}$$

7. $-\frac{63}{16}$

8. Simplify $\sin(\pi - \theta)$.

$$\sin \pi \cos \theta - \cos \pi \sin \theta = (0)\cos \theta - (-1)\sin \theta = 0 + \sin \theta$$

8. $\sin \theta$

9. If θ is an angle in the first quadrant and $\cos \theta = \frac{1}{2}$, find the exact value of $\cos 2\theta$.

$$\cos^2 \theta - \sin^2 \theta = \left(\frac{1}{2}\right)^2 - \left(\frac{\sqrt{3}}{2}\right)^2 = \frac{1}{4} - \frac{3}{4} = -\frac{2}{4} = -\frac{1}{2}$$

9. $-\frac{1}{2}$

10. If $\cos \theta = \frac{3}{5}$ and $0^\circ < \theta < 90^\circ$, find the exact value of $\sin 2\theta$.

$$2 \sin \theta \cos \theta = 2\left(\frac{4}{5}\right)\left(\frac{3}{5}\right) = \frac{24}{25}$$

10. $\frac{24}{25}$

11. If $\cos \theta = -\frac{1}{5}$ and θ has its terminal side in Quadrant II, find the exact value of $\tan 2\theta$.

$$\frac{2 \tan \theta}{1 - \tan^2 \theta} = \frac{2\left(-\frac{3}{4}\right)}{1 - \frac{9}{16}} = \frac{-\frac{3}{2}}{\frac{7}{16}} = -\frac{3}{2} \cdot \frac{16}{7} = -\frac{24}{7}$$

11. $-\frac{24}{7}$

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Minjie Lin



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