

Chapter 7, Quiz A (Lessons 7-1 and 7-2)

1. If $\sec \theta = 3$, find the value of $\cos \theta$. 1. _____
2. If $\cot \theta = \frac{4}{3}$ and $180^\circ < \theta < 270^\circ$, find $\csc \theta$. 2. _____
3. Simplify $\cot^2 x \sec^2 x$. 3. _____
4. Simplify $\frac{1 - \cos^2 \theta}{1 + \cot^2 \theta}$. 4. _____
5. If $\sec \theta \sin \theta = 2$, find the value of $\cot \theta$. 5. _____

Chapter 7, Quiz B (Lessons 7-3 and 7-4)

1. Use a sum or difference identity to find the exact value of $\cos 345^\circ$. 1. _____
2. Find the value of $\tan(\alpha + \beta)$ if $\sin \alpha = -\frac{5}{13}$, $\cos \beta = \frac{4}{5}$, $270^\circ < \alpha < 360^\circ$, and $270^\circ < \beta < 360^\circ$. 2. _____
3. If $\sec \theta = -\frac{13}{5}$ and $90^\circ < \theta < 180^\circ$, find the exact value of $\sin 2\theta$. 3. _____
4. If $\cos \theta = \frac{4}{5}$ and θ has its terminal side in Quadrant IV, find the exact value of $\tan 2\theta$. 4. _____
5. Use a half-angle identity to find the exact value of $\sin 165^\circ$. 5. _____