Accelerated Integrated 3
Chapter 8-9
Review WS 8.4-8.5

Name $\qquad$
Period $\qquad$
A\# $\qquad$

Solve each equation for $0^{\circ} \leq \theta<360^{\circ}$. Give answer to the nearest tenth of a degree.

1. $2 \cos ^{2} \theta+3 \sin \theta-3=0$
2. $\cos \theta \cot \theta=2 \cos \theta$

Simplify each expression.
3. $\cot A(\sec A-\cos A)$
4. $\frac{\cot \theta}{\sin \left(90^{\circ}-\theta\right)}$
5. $(\sec x+\tan x)(1-\sin x)$
6. $\frac{\cot x+\tan x}{\csc ^{2} x}$

Prove the given identity.
7. $\frac{\cot A\left(1+\tan ^{2} A\right)}{\tan A}=\csc ^{2} A$
8. The sides of an isosceles triangle have lengths 5,10 , and 10 . What are the measures of the angles?
9. A regular pentagon is inscribed in a circle with a radius of 4 inches. Find the area of the pentagon.

