Accelerated Integrated 3
Chapter 8-9
Review WS 8 4-8 5

Solve each equation for $0^{\circ} \le \theta < 360^{\circ}$. 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.
$$\cot A(\sec A - \cos A)$$

$$4. \ \frac{\cot \theta}{\sin(90^\circ - \theta)}$$

5.
$$(\sec x + \tan x)(1 - \sin x)$$

$$6. \frac{\cot x + \tan x}{\csc^2 x}$$

Prove the given identity.

7.
$$\frac{\cot A(1+\tan^2 A)}{\tan A} = \csc^2 A$$

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.