

Warm-up #3: Simplifying

1. $(\sec^2\theta - 1)\cos^2\theta$

$$\tan^2\theta \cdot \cos^2\theta$$

$$\frac{\sin^2\theta}{\cos^2\theta} \cdot \cos^2\theta$$

$$\boxed{\sin^2\theta}$$

2. $\sin\theta - \sin\theta\cos^2\theta$

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

$$\sin\theta(\sin^2\theta)$$

$$\boxed{\sin^3\theta}$$