

6C Part 1 Simplifying Expressions

1. simplify

a) $\sin\theta \cot\theta \sec\theta$

b) $\sin\theta \cos\theta (\sec\theta + \operatorname{cosec}\theta)$

$$c) \frac{\cot\theta \operatorname{cosec}\theta}{\sec^2\theta + \operatorname{cosec}^2\theta} \equiv \cos^3\theta$$