

TRIG SPIES CARDS: UNDERCOVER AGENTS



Undercover Agents



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<p>Simplify:</p> $\csc \theta - \cos \theta \cot \theta$ <p><i>Card A – 4 points</i></p>	<p>Verify:</p> $(1 + \sin \theta)(1 - \sin \theta) = \frac{1}{\sec^2 \theta}$ <p><i>Card B – 3 points</i></p>
<p>Simplify:</p> $\cot \theta - \cos^3 \theta \csc \theta$ <p><i>Card C – 4 points</i></p>	<p>Verify:</p> $1 - \tan^4 \theta = 2\sec^2 \theta - \sec^4 \theta$ <p><i>Card D – 4 points</i></p>
<p>Simplify:</p> $(\csc \theta - \cot \theta)(\csc \theta + \cot \theta)$ <p><i>Card E – 4 points</i></p>	<p>Verify:</p> $\tan^2 \theta \cos^2 \theta = 1 - \cos^2 \theta$ <p><i>Card F – 3 points</i></p>

TRIG SPIES CARDS: DEEP COVER AGENTS



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Simplify:

$$\frac{\sin \theta - 1}{\cos \theta} - \frac{\cos \theta}{\sin \theta - 1}$$

Card U – 6 points

Verify:

$$\frac{\sec \theta}{\sin \theta} - \frac{\sin \theta}{\cos \theta} = \cot \theta$$

Card V – 6 points

Simplify:

$$\frac{\sec \theta \csc \theta - \tan \theta}{\sec \theta \csc \theta}$$

Card W – 5 points

Verify:

$$\frac{\sin \theta}{1 - \cot \theta} + \frac{\cos \theta}{1 - \tan \theta} = \sin \theta + \cos \theta$$

Card X – 6 points

Simplify:

$$(\csc \theta + \cot \theta)(1 - \cos \theta)$$

Card Y – 5 points

Verify:

$$\frac{1 - \tan^2 \theta}{1 - \cot^2 \theta} = \frac{\cos^2 \theta - 1}{\cos^2 \theta}$$

Card Z – 6 points