

Statements	Reasons
<p>Solutions to Entry Slip 12-7-16</p> <p>1) $\frac{\sec x}{\csc x} = \tan x$</p> <p>2) $\frac{\sec x}{1} \cdot \frac{1}{\csc x} = \tan x$</p> <p>3) $\frac{1}{\cos x} \cdot \frac{\sin x}{1} = \tan x$</p> <p>4) $\frac{\sin x}{\cos x} = \tan x$</p> <p>5) $\tan x = \tan x$</p>	<p>These can be as simple as algebra step and trig step</p> <p>1) Given</p> <p>2) Algebra (properties of fractions)</p> <p>3) Trigonometry (Reciprocal ID)</p> <p>4) Algebra (multiplication)</p> <p>5) Trigonometry (Quotient ID)</p>

Problem 1

Statements	Reasons
<p>Solutions to Entry Slip 12-7-16</p> <p>1) $\cos^2 x \csc^2 x = \cot^2 x$</p> <p>2) $\cos^2 x \frac{1}{\sin^2 x} = \cot^2 x$</p> <p>3) $\frac{\cos^2 x}{\sin^2 x} = \cot^2 x$</p> <p>4) $\cot^2 x = \cot^2 x$</p>	<p>These can be as simple as algebra step and trig step</p> <p>1) Given</p> <p>2) Trigonometry (Reciprocal ID)</p> <p>3) Algebra (multiplication)</p> <p>5) Trigonometry (Quotient ID)</p>

Problem 1

Statements	Reasons
<p>Solutions to Entry Slip 12-7-16</p> <p>1) $\frac{\cos x}{1 - \sin^2 x} = \sec x$</p> <p>2) $\frac{\cos x}{\cos^2 x} = \sec x$</p> <p>3) $\frac{\cos x}{\cos x} \cdot \frac{1}{\cos x} = \sec x$</p> <p>4) $\frac{1}{\cos x} = \sec x$</p> <p>5) $\sec x = \sec x$</p>	<p>These can be as simple as algebra step and trig step</p> <p>1) Given</p> <p>2) Trigonometry (Pythagorean ID)</p> <p>3) Algebra (Exponent Law)</p> <p>4) Algebra (Multiplicative ID)</p> <p>5) Trigonometry (Reciprocal ID)</p>

Problem 1

Statements	Reasons
<p>Solutions to Entry Slip 12-7-16</p> <p>1) $\frac{1}{\cos x} - \frac{1}{\sec x} = \tan x \sin x$</p> <p>2) $\frac{1}{\cos x} - \cos x = \tan x \sin x$</p> <p>3) $\frac{1}{\cos x} - \frac{\cos x}{1} \cdot \frac{\cos x}{\cos x} = \tan x \sin x$</p> <p>4) $\frac{1}{\cos x} - \frac{\cos^2 x}{\cos x} = \tan x \sin x$</p> <p>5) $\frac{1 - \cos^2 x}{\cos x} = \tan x \sin x$</p> <p>6) $\frac{\sin^2 x}{\cos x} = \tan x \sin x$</p> <p>7) $\frac{\sin x}{\cos x} \cdot \frac{\sin x}{1} = \tan x \sin x$</p> <p>8) $\tan x \sin x = \tan x \sin x$</p>	<p>These can be as simple as algebra step and trig step</p> <p>1) Given</p> <p>2) Trigonometry (Reciprocal ID)</p> <p>3) Algebra (Multiplicative ID)</p> <p>4) Algebra (Exponent Law)</p> <p>5) Algebra (Fraction Properties)</p> <p>6) Trigonometry (Pythagorean ID)</p> <p>7) Algebra (Exponent Law)</p> <p>8) Trigonometry (Quotient ID)</p>

Problem 1

Statements	Reasons
<p>Solutions to Entry Slip 12-7-16</p> <p>1) $\frac{1}{\cot x} + \cot x = \csc x \sec x$</p> <p>2) $\frac{1}{\cot x} + \frac{\cot x}{1} \cdot \frac{\cot x}{\cot x} = \csc x \sec x$</p> <p>3) $\frac{1}{\cot x} + \frac{\cot^2 x}{\cot x} = \csc x \sec x$</p> <p>4) $\frac{1 + \cot^2 x}{\cot x} = \csc x \sec x$</p> <p>5) $\frac{\csc^2 x}{\cot x} = \csc x \sec x$</p> <p>6) $\frac{\csc x}{1} \cdot \frac{\csc x}{1} \cdot \frac{1}{\cot x} = \csc x \sec x$</p> <p>7) $\frac{\csc x}{1} \cdot \frac{1}{\sin x} \cdot \frac{\tan x}{1} = \csc x \sec x$</p> <p>8) $\frac{\csc x}{1} \cdot \frac{1}{\sin x} \cdot \frac{\sin x}{\cos x} = \csc x \sec x$</p> <p>9) $\frac{\csc x}{1} \cdot \frac{\sin x}{\sin x} \cdot \frac{1}{\cos x} = \csc x \sec x$</p> <p>10) $\csc x \cdot \frac{1}{\cos x} = \csc x \sec x$ 11) $\csc x \sec x = \csc x \sec x$</p>	<p>These can be as simple as algebra step and trig step</p> <p>1) Given</p> <p>2) Algebra (Multiplicative ID)</p> <p>3) Algebra (Exponent Law)</p> <p>4) Algebra (Fraction Properties)</p> <p>5) Trigonometry (Pythagorean ID)</p> <p>6) Algebra (Exponent Law)</p> <p>7) Trigonometry (Reciprocal ID)</p> <p>8) Trigonometry (Quotient ID)</p> <p>9) Algebra (Commutative Property of Multiplication)</p> <p>10) Algebra (Multiplicative ID)</p> <p>11) Trigonometry (Reciprocal ID)</p>