## FUNDAMENTAL | DENTITIES 2(A3)=2X+CReciprocal $CSC \Theta = \frac{1}{SIN\Theta} A$ ) $tan \Theta = \frac{SM\Theta}{COS\Theta} G$ ) $SIn^2 \Theta + COS^2 \Theta = COS \Theta$ $SIN \Theta = \frac{1}{CSC\Theta} S$ ) $COPP = \frac{COS\Theta}{SIN\Theta} S$ $1 + tan^2 \Theta = Sac^2 \Theta$ $SIN COPP = \frac{1}{COS\Theta} S$ $SIN (-\Theta) = -SIN \Theta$ $SIN (-\Theta) = -SIN \Theta$ $SIN (-\Theta) = -SIN \Theta$ $COS (-\Theta) = COS \Theta$ $Tan (-\Theta) = -tan \Theta$ $Tan (-\Theta) = -tan \Theta$

$$Simplify.$$

$$CSC \times tan \times$$

$$= \frac{1}{37m \times} \cdot \frac{5m \times}{Cos \times}$$

$$= \frac{1}{Cos \times} \cdot \frac{5m \times}{Sec \Theta}$$

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$$= \frac{1}{Sec \times} \cdot \frac{5m \times}{Sec \Theta}$$

$$= \frac{1}{Sec \times} \cdot \frac{5m \times}{Sec \times}$$

$$= \frac{1}{Sin^2 \times} \cdot \frac{5m^2 \times}{Sec \times}$$

$$= \frac$$

$$\frac{1}{4 \cos^2 x} - \frac{\sec^2 x}{\csc^2 x} \qquad \frac{(1+x)x}{42} \qquad \frac{1}{1+\cos x} \cos x + \frac{\sin x}{1+\cos x} (\sin x) \\
\frac{1}{1+\cos x} \cos x + \frac{\sin x}{1+\cos x} (\sin x) \\
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\frac{1}{1+\cos x} \cos x + \frac{\cos x}{1+\cos x} \cos x + \frac$$

$$B = \frac{11(a + c)^2}{1 + c}$$

$$\mathcal{D} \lambda \cdot \cos^2 x + 1$$

C3. 
$$\frac{\tan x}{\cos x} = \frac{\sin x}{\cos x} \cdot \frac{\cos x}{\cos x}$$

$$B. \frac{\cos^2 x}{\sin^2 x} = \cot^2 x$$

C. Sec 
$$x = \frac{1}{\cos x}$$

C 3.  $\frac{\tan x}{\sin x} = \frac{\sin x}{\cos x} - \frac{\sin x}{\cos x}$ Sin  $\frac{x}{\sin x} = \frac{\sin x}{\cos x} - \frac{\sin x}{\cos x}$   $\frac{\sin x}{\sin x} = \frac{\cos x}{\sin x} + \frac{\cos x}{\sin x}$   $\frac{\cos x}{\sin x} = \frac{\cos x}{\cos x} + 1$ A 4.  $\frac{\cos x}{\sin x} = \frac{\cos x}{\cos x} + 1$ 

