

Simplify.

$$Csc x \tan x$$

$$= \frac{1}{-5mx} \cdot \frac{5mx}{\cos x}$$

$$= \frac{1}{\cos x}$$

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$$= \frac{1}{\cos x}$$

$$= \frac{1}{\cos x}$$

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

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

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

$$= -\sin \theta$$

$$(1+\cos x)\cos x + \sin x \sin x \sin x$$

$$(1+\cos x)\sin x + \frac{\sin x}{1+\cos x}\sin x$$

$$= \frac{\cos x + \cos^2 x + \sin^2 x}{\sin x (1+\cos x)}$$

$$= \frac{\cos x + 1}{\sin x (1+\cos x)}$$

$$= \frac{1}{\sin x} \text{ or } \csc x$$

$$\frac{Match.}{B} = \frac{\sqrt{448}}{1 \cdot \csc^2 x - 1} = \frac{\cot^2 x}{1 \cdot \cot^2 x}$$

$$\frac{Match.}{B} = \frac{\sqrt{448}}{1 \cdot \csc^2 x} = \frac{1}{\cos^2 x}$$

$$\frac{B}{Sin^2 x} = \frac{Cot^2 x}{Sin^2 x}$$

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$$\frac{C}{Sin^2 x} = \frac{Sin x}{\cos x} = \frac{Sin x}{Sin^2 x}$$

$$\frac{D}{Sin^2 x} = \frac{Sin x}{\cos x} = \frac{Sin^2 x}{Sin^2 x}$$

$$\frac{Sin^2 x}{1 \cdot \cos x} = \frac{Sin^2 x}{\cos x} = \frac{Sin^2 x}{Sin^2 x}$$

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