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TRIGONOMETRY JOURNAL IDENTITIES

tically correct (C) or incorrect (I). Explain
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erence identity when
tities to use.
$\frac{\theta}{2}$ or $\cos \frac{\theta}{2}$ is
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- 8. Attach a spare copy of the identity sheet to this journal or list all of the identities studied.
- 9. Identify the 5 mistakes in the proof of the identity below.

$$\cos 3x = 2\sin x \sec x + \tan x \sin x$$

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

$$\cos 2x \cos x + \sin 2x \sin x = \frac{2\sin x}{\cos x} + \cos x$$

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

$$1 \cdot \cos x + 2\sin^2 x \cos x = 2\sin x + \cos x$$

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