

3. If $m \sin \theta = n \sin (\theta + 2\alpha)$, then prove that $\tan (\theta + \alpha) \cot \alpha = \frac{m + n}{m - n}$.

Sol. We have, $m \sin \theta = n \sin (\theta + 2\alpha)$

$$\therefore \frac{\sin(\theta + 2\alpha)}{\sin \theta} = \frac{m}{n}$$

Using componendo and dividendo, we get

$$\frac{\sin(\theta + 2\alpha) + \sin \theta}{\sin(\theta + 2\alpha) - \sin \theta} = \frac{m + n}{m - n}$$

$$\Rightarrow \frac{2 \sin\left(\frac{\theta + 2\alpha + \theta}{2}\right) \cdot \cos\left(\frac{\theta + 2\alpha - \theta}{2}\right)}{2 \cos\left(\frac{\theta + 2\alpha + \theta}{2}\right) \cdot \sin\left(\frac{\theta + 2\alpha - \theta}{2}\right)} = \frac{m + n}{m - n}$$

$$\Rightarrow \frac{\sin(\theta + \alpha) \cdot \cos \alpha}{\cos(\theta + \alpha) \cdot \sin \alpha} = \frac{m + n}{m - n}$$

$$\Rightarrow \tan (\theta + \alpha) \cdot \cot \alpha = \frac{m + n}{m - n}$$

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