

Departamento de Matemáticas $1^{\underline{0}}$ Bachillerato



23 - Trigonometría

(a)
$$\sec \alpha^2 + \csc \alpha^2 = \sec \alpha^2 \cdot \csc \alpha^2$$

Sol:
$$\left[\frac{8}{-\cos(4\alpha)+1}, \frac{8}{-\cos(4\alpha)+1}\right] \rightarrow$$
 True

(b) $\tan \alpha + \tan \beta \frac{1}{\cot \alpha + \cot \beta = \tan \alpha \cdot \tan \beta}$

Sol:
$$[\tan{(\alpha)}\tan{(\beta)}, \tan{(\alpha)}\tan{(\beta)}] \rightarrow$$

True

Parte I

$$\sin \alpha \cdot \cos \alpha \cos \alpha^2 - \sin \alpha^2 = \frac{\tan \alpha}{1 - \tan \alpha^2}$$

Sol:
$$\left[\frac{\tan{(2\alpha)}}{2}, \frac{\tan{(2\alpha)}}{2}\right] \to \text{True}$$