

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

$$= 2 \tan(x) \times \frac{1}{1 + \tan^2(x)}$$

$$\text{Bc } \sin(2x) = \frac{2 \tan(x)}{1 + \tan^2(x)}$$