



mobius

Trigonometry Identities - Double Angle to **Identity (Greek Letter)**



Complete the double-angle identity for this expression

 $\cos(2\cdot\gamma)_{\frac{A}{=2\cos^2(\gamma)-1}}$

$$\stackrel{\scriptscriptstyle\mathsf{A}}{=} 2\mathsf{cos}^2(\gamma) - 1$$

$$\overset{\scriptscriptstyle\mathsf{B}}{=} 1 + 2\mathsf{sin}^2(\gamma)$$

Complete the double-angle identity for this expression

$$rac{1}{1-\mathsf{tan}^2(lpha)}$$

$$^{\mathsf{B}}=rac{\mathsf{tan}(lpha)}{\mathsf{1-2tan}(lpha)}$$

3

Complete the double-angle identity for this expression

 $\sin(2\cdot\gamma)_{\frac{A}{2}\sin(\gamma)\cos(\gamma)}$

$$\stackrel{\mathsf{A}}{=} 2\mathsf{sin}(\gamma)\mathsf{cos}(\gamma)$$

$$\stackrel{\mathsf{B}}{=} rac{\mathsf{sin}(\gamma)\mathsf{cos}(\gamma)}{2}$$

Complete the double-angle identity for this expression

$$A = \frac{2 tan(\theta)}{1 - tan^2(\theta)}$$

$$\frac{\mathsf{B}}{\mathsf{B}} = \frac{\mathsf{tan}(\theta)}{1 - 2\mathsf{tan}(\theta)}$$

5

Complete the doubleangle identity for this expression

$$cos(2 \cdot \alpha)$$

$$=\cos^2(\alpha)-\sin^2(\alpha)$$

$$=2\mathsf{cos}^2(lpha)+1$$

8

Complete the double-angle identity for this expression

 $\overset{\scriptscriptstyle\mathsf{A}}{=} 2\mathsf{cos}^2(heta) + 1$

$$\stackrel{\scriptscriptstyle\mathsf{B}}{=} 2\mathsf{cos}^2(\theta) - 1$$

7

Complete the double-angle identity for this expression

$$egin{aligned} \mathsf{A} \ &= rac{\mathsf{2tan}(heta)}{1+\mathsf{tan}^2(heta)} \end{aligned}$$

$$=\frac{\sin(\theta)\cos(\theta)}{2}$$

 $sin(2 \cdot \alpha)$

Complete the double-angle identity for this expression

 $\stackrel{\scriptscriptstyle\mathsf{A}}{=} \mathsf{sin}(lpha)\mathsf{cos}(lpha)$

$$\stackrel{\scriptscriptstyle\mathsf{B}}{=} 2\mathsf{sin}(lpha)\mathsf{cos}(lpha)$$