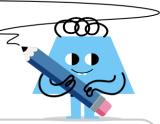




mobius

Trigonometry Identities - Half Angle to Identity (Greek Letter)



$$tan(\frac{\beta}{2})^{\text{Complete the half-angle identity for this expression}} \\ = \pm \sqrt{\frac{1-\cos(\beta)}{1+\cos(\beta)}} = \pm \sqrt{\frac{1+\sin(\beta)}{1-\sin(\beta)}} \\ cos(\frac{\gamma}{2})^{\text{Complete the half-angle identity for this expression}} \\ = \pm \sqrt{\frac{1-\cos(\beta)}{1+\sin(\beta)}} = \pm \sqrt{\frac{1+\sin(\beta)}{1-\sin(\beta)}} \\ = \pm \sqrt{\frac{1+\sin(\gamma)}{2}} = \pm \sqrt{\frac{1+\cos(\gamma)}{2}} \\ = \pm \sqrt{\frac{1+\cos(\gamma)}{2}} =$$

Complete the half-angle identity for this expression

$$egin{aligned} \mathsf{A} & \mathsf{B} \ &= \pm \sqrt{rac{1-\cos(eta)}{1+\cos(eta)}} = \pm \sqrt{rac{1+\sin(eta)}{1-\sin(eta)}} \end{aligned}$$

$$\cos(\frac{\gamma}{2})$$

Complete the half-angle identity

$$egin{aligned} \mathsf{A} & \mathsf{B} \ = \pm \sqrt{rac{1+ \mathsf{sin}(\gamma)}{2}} = \pm \sqrt{rac{1+ \mathsf{cos}(\gamma)}{2}} \end{aligned}$$

3

$$tan(\frac{\theta}{2})^{\frac{Complete the half-angle identity for this expression}{1+\cos(\theta)}} sin(\frac{\gamma}{2})^{\frac{Complete the half-angle identity for this expression}{1+\cos(\theta)}} = \frac{1+\cos(\theta)}{1+\sin(\theta)}$$

$$egin{aligned} egin{aligned} \mathsf{A} \ = rac{\mathsf{sin}(heta)}{1+\mathsf{cos}(heta)} & = rac{1+\mathsf{cos}(heta)}{1+\mathsf{sin}(heta)} \end{aligned}$$

Complete the half-angle identity

$$egin{aligned} \mathsf{A} & \mathsf{B} \ &= \pm \sqrt{rac{1-\cos(\gamma)}{2}} = \pm \sqrt{rac{1+\cos(\gamma)}{1-\cos(\gamma)}} \end{aligned}$$

$$\sin \left(\frac{\theta}{2}\right)^{\text{Complete the half-angle identity for this expression}} \cos \left(\frac{\theta}{2}\right)^{\text{Complete the half-angle identity for this expression}} \cos \left(\frac{\alpha}{2}\right)^{\text{Complete t$$

Complete the half-angle identity

$$\begin{vmatrix} \mathsf{A} & \mathsf{B} \\ \\ = \pm \sqrt{\frac{1 - \mathsf{cos}(\theta)}{2}} \\ = \pm \sqrt{\frac{1 + \mathsf{cos}(\theta)}{2}} \end{vmatrix}$$

$$\cos(\frac{\alpha}{2})$$

Complete the half-angle identity

$$egin{aligned} \mathsf{A} & \mathsf{B} \ = \pm \sqrt{rac{1+\cos(lpha)}{2}} = \pm \sqrt{rac{1+\cos(lpha)}{1-\cos(lpha)}} \end{aligned}$$

7

$$\sin \left(\frac{\alpha}{2}\right)^{\text{Complete the half-angle identity for this expression}} \cos \left(\frac{\beta}{2}\right)^{\text{Complete t$$

Complete the half-angle identity

A B
$$= \pm \sqrt{\frac{1 + \cos(\alpha)}{1 - \cos(\alpha)}} = \pm \sqrt{\frac{1 - \cos(\alpha)}{2}}$$

Complete the half-angle identity

$$\begin{vmatrix} \mathsf{A} & \mathsf{B} \\ = \pm \sqrt{\frac{1 + \cos(\beta)}{2}} \\ = \pm \sqrt{\frac{1 + \cos(\beta)}{1 - \cos(\beta)}}$$