216
$$\left(\sin\frac{\alpha}{2} + \cos\frac{\alpha}{2}\right)^2 - \cos^2\frac{\alpha}{2} + \frac{1}{2}\cos\alpha$$

$$\left[\frac{1}{2} + \sin\alpha\right]$$

$$\sin^2\frac{\alpha}{2} + \cos^2\frac{\alpha}{2} + 2\sin\frac{\alpha}{2}\cos\alpha = \frac{1 + \cos\alpha}{2} + \frac{1}{2}\cos\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \cos^2\frac{\alpha}{2} + 2\sin\frac{\alpha}{2}\cos\alpha = \frac{1 + \cos\alpha}{2} + \frac{1}{2}\cos\alpha = \frac{1}{2} + \sin\alpha$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \cos^2\alpha + 2\sin\frac{\alpha}{2}\cos\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \cos^2\alpha + 2\sin\frac{\alpha}{2}\cos\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \cos^2\alpha + 2\sin\frac{\alpha}{2}\cos\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\frac{\alpha}{2} + \sin^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha + \cos^2\alpha = \frac{1 + \cos\alpha}{2}$$

$$\sin^2\alpha + \cos^2\alpha + \cos^2\alpha$$

$$\frac{1+\sin\alpha}{\cos\alpha} = \frac{\cot\frac{\alpha}{2}+1}{\cot\frac{\alpha}{2}-1}$$

$$\frac{1}{1 + \sin \alpha} = \frac{1}{1 + \cos \alpha}$$

$$\frac{1}{1 + \tan \alpha} = \frac{1}{1 + \tan \alpha}$$

$$\frac{1}{1 + \tan \alpha} = \frac{1}{1 + \cot \alpha}$$

$$\frac{1}{1 + \cot \alpha} = \frac{1}{1 + \cot \alpha}$$

$$\frac{1}{1 + \cot \alpha} = \frac{1}{1 + \cot \alpha}$$

$$\frac{1}{1 + \cot \alpha} = \frac{1}{1 + \cot \alpha}$$

$$\frac{1}{1 + \cot \alpha} = \frac{1}{1 + \cot \alpha}$$

$$\frac{1}{1 + \cot \alpha} = \frac{1}{1 + \cot \alpha}$$

cond

FORMULE PARAMETRICHE

$$\sin \alpha = 2 \sin \frac{\alpha}{2} \cos \frac{\alpha}{2}$$

$$\cos d = \cos^2 \frac{\alpha}{2} - \sin^2 \frac{\alpha}{2}$$

$$\sin \alpha = 2 \sin \frac{\alpha}{2} \cos \frac{\alpha}{2}$$

$$\cos^2 \frac{\alpha}{2} + \sin^2 \frac{\alpha}{2}$$

$$\cos d = \frac{\cos^2 \alpha}{2} - \sin^2 \frac{\alpha}{2}$$

$$\cos^2 \alpha + \sin^2 \frac{\alpha}{2}$$

$$2 \sin \frac{\alpha}{2} \cos \frac{\alpha}{2}$$

$$\sin d = \frac{\cos^2 \frac{\alpha}{2}}{2}$$

$$\frac{\cos^2\alpha + \sin^2\frac{\alpha}{2}}{\cos^2\frac{\alpha}{2}}$$

$$\sin d = \frac{2 \tan \frac{\alpha}{z}}{z}$$

$$1 - \tan^2 \frac{\alpha}{2}$$

$$1 + \tan^2 \frac{\alpha}{2}$$

$$1 + \tan^2 \frac{\alpha}{2}$$

$$tau \frac{d}{2} = t$$

$$Sind = \frac{2t}{1+t^2}$$

$$\cos \alpha = \frac{1 - t^2}{1 + t^2}$$

$$d \neq \pi + 2k\pi$$

$$t = tau \frac{d}{2}$$

$$\frac{2\sin\alpha + 3\cos\alpha}{1 + \cos\alpha} =$$

$$\left[\frac{4t+3-3t^2}{2} \right]$$

= 6-405 15

Sind =
$$\frac{2t}{1+t^2}$$

$$\cos \lambda = \frac{1-t^2}{1+t^2}$$

$$\alpha \neq \pi + 2\pi$$

Determina i valori richiesti, utilizzando le informazioni

$$\frac{312}{\cos(\alpha-\beta)}, \sin\frac{\beta}{2}; \quad \sin\alpha = \frac{\sqrt{5}}{3}, \cos 0 < \alpha < \frac{\pi}{2} e \cos\beta = \frac{3}{5}, \cos\frac{3}{2}\pi < \beta < 2\pi. \qquad \left[\frac{6-4\sqrt{5}}{15}; \frac{\sqrt{5}}{5}\right]$$

$$(a - B) = cosd cos B + sind sin B = \frac{2}{3} \cdot \frac{3}{5} + \frac{\sqrt{5}}{3} \cdot \left(-\frac{4}{5}\right) = \frac{6}{15} \cdot \frac{4\sqrt{5}}{15} = \frac{6}{15}$$

$$\cos \lambda = + \sqrt{1 - \sin^2 \lambda} = \sqrt{1 - \frac{5}{3}} = \sqrt{\frac{4}{3}} = \frac{2}{3}$$

$$\sin \beta = -\sqrt{1 - \cos^2 \beta} = -\sqrt{1 - \frac{3}{25}} = -\sqrt{\frac{16}{25}} = -\frac{4}{5}$$

$$\sin \frac{\beta}{2} = +\sqrt{\frac{1-\cos\beta}{2}} = \sqrt{\frac{1-\frac{3}{5}}{2}} = \sqrt{\frac{\frac{2}{5}}{5}} = \sqrt{\frac{1}{5}} = \frac{1}{\sqrt{5}} = \frac{1}{5}$$

$$\frac{3\pi}{2}\pi < \beta < 2\pi$$

$$\frac{3}{4}\pi < \frac{\beta}{2} < \pi \implies \sin \frac{\beta}{2} > 0$$

