Survey in functione di
$$t = tour \frac{\alpha}{2}$$

$$\frac{2\sin\alpha + 4\cos\alpha}{\cos\alpha} - 2\tan\alpha = [4]$$

$$\frac{2}{4tt^2} + 4\frac{1 - t^2}{4tt^2}$$

$$\frac{4}{4tt^2} + 4\frac{1 - t^2}{4tt^2}$$

$$\frac{4}{4t^2} + 4\frac{4}{4t^2} + \frac{2}{4t} = \frac{2}{4t^2}$$

$$\frac{4}{4t^2} + 4\frac{4}{4t^2} + \frac{4}{4t} = \frac{4}{4t^2} + 4\frac{4}{4t^2} + 4\frac{4}{4$$

$$\frac{(\cos \beta - \sin \beta)(\cos \beta + \sin \beta)^{2} - (\cos \beta - \sin \beta)}{2(\cos \beta - \sin \beta)(\cos \beta + \sin \beta)}$$

$$= \frac{(\cos \beta - \sin \beta)[(\cos \beta + \sin \beta)^{2} - 1]}{2(\cos \beta - \sin \beta)((\cos \beta + \sin \beta))}$$

$$= \frac{1}{2(\cos \beta + \sin \beta)}$$

$$\cos \alpha = \frac{4}{5}$$

$$\cos \beta = \frac{3}{5}$$

$$2\alpha \qquad \beta$$

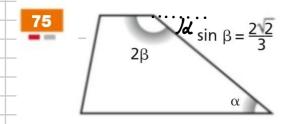
Calcola sin γ e cos γ .

$$\left[\frac{4}{5}; \frac{3}{5}\right]$$

$$= 2\sqrt{1 - \frac{16}{25} \cdot \frac{4}{5} \cdot \frac{3}{5}} + \left(2 \cdot \frac{16}{25} - 1\right) \cdot \sqrt{1 - \frac{9}{25}} =$$

$$= 2.\frac{3}{5}.\frac{4}{5}.\frac{3}{5} + \frac{7}{25}.\frac{4}{5} = \frac{72}{125} + \frac{28}{125} = \frac{100}{125} = \frac{4}{5}$$

$$\cos 8 = \sqrt{1 - \sin^2 8} = \sqrt{1 - \frac{16}{25}} = \sqrt{\frac{9}{25}} = \frac{3}{5}$$



Calcola cot α .

$$\alpha + 2\beta = \pi$$

$$= 2 \frac{2\sqrt{2}}{3} \sqrt{1 - \frac{8}{9}} = 2.2\sqrt{2} \cdot \frac{1}{3} =$$

 $\left[\frac{7\sqrt{2}}{8}\right]$

$$= \sqrt{1 - \frac{32}{81}} = \sqrt{\frac{49}{81}}$$