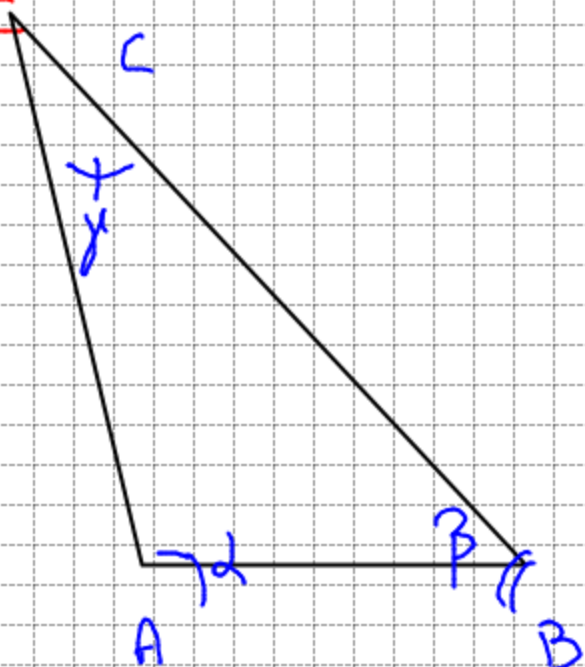


N 82



$$\beta = \frac{\pi}{4}$$

$$\cos \alpha = -\frac{1}{5} \quad \frac{\pi}{2} < \alpha < \pi$$

$$\alpha + \beta + \gamma = \pi \quad \alpha + \gamma = \pi - \frac{\pi}{4} \quad \alpha + \gamma = \frac{3\pi}{4}$$

$$\alpha + \beta = \frac{\pi}{4}$$

$$\alpha = \frac{3\pi}{4} - \gamma \quad \cos \alpha = \cos\left(\frac{3\pi}{4} - \gamma\right)$$

$$-\frac{1}{5} = \cos\left(\frac{3\pi}{4} - \gamma\right)$$

$$-\frac{1}{5} = \cos\frac{3\pi}{4} \cos \gamma + \sin\frac{3\pi}{4} \sin \gamma$$

$$\begin{cases} -\frac{1}{5} = -\frac{\sqrt{2}}{2} \cos \gamma + \frac{\sqrt{2}}{2} \sin \gamma \\ \sin^2 \gamma + \cos^2 \gamma = 1 \end{cases}$$

$$\begin{cases} -\frac{\sqrt{2}}{2} \cos \gamma + \frac{\sqrt{2}}{2} \sqrt{1 - \cos^2 \gamma} = -\frac{1}{5} \\ \sin \gamma = +\sqrt{1 - \cos^2 \gamma} \end{cases}$$

$$\frac{1}{2}(1 - \cos^2 \gamma) = \frac{1}{25} + \frac{1}{2} \cos^2 \gamma - \frac{\sqrt{2}}{5} \cos \gamma$$

$$\frac{1}{2} - \frac{1}{2} \cos^2 \gamma - \frac{1}{2} \cos^2 \gamma + \frac{\sqrt{2}}{5} \cos \gamma - \frac{1}{25} = 0$$

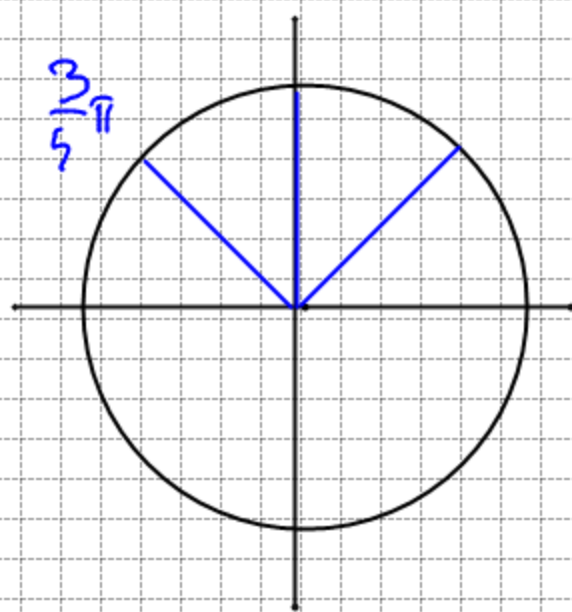
$$-\cos^2 \gamma + \frac{\sqrt{2}}{5} \cos \gamma + \frac{23}{50} = 0$$

$$-\cos^2 \gamma + \frac{\sqrt{2}}{5} \cos \gamma + \frac{23}{50} = 0$$

$$\cos \gamma = \frac{-\frac{\sqrt{2}}{5} \pm \sqrt{\frac{2}{25} + \frac{46}{25}}}{-2}$$

$$\cos \gamma_1 = \frac{\sqrt{2} + 4\sqrt{3}}{10} \quad \text{SI}$$

$$\cos \gamma_2 = \frac{\sqrt{2} - 4\sqrt{3}}{10} \quad \text{NO}$$



+ parte  $\gamma$  è angolo di un triangolo che ha un angolo  $> \frac{\pi}{2}$  quindi  $\gamma < \frac{\pi}{2}$

48	2
24	2
12	2
6	2
3	3
1	1

$$\frac{-\frac{\sqrt{2}}{5} - \frac{4\sqrt{3}}{5}}{-2}$$

$$\frac{-\frac{\sqrt{2}}{5} + \frac{4\sqrt{3}}{5}}{-2}$$