2.70
ס5

$$\sin\frac{\alpha}{2}\cos\frac{\beta}{2} = \sin\left(\frac{\alpha+\beta+\gamma}{6}\right)\cos\frac{\gamma}{2}$$

$$\sin\frac{\alpha}{2}\cos\frac{\beta}{2} = \sin\frac{\pi}{6}\cos\left(\frac{180-\alpha-\beta}{2}\right)$$

$$\sin\frac{\alpha}{2}\cos\frac{\beta}{2} = \frac{1}{2}\cos\left(90-\left(\frac{\alpha+\beta}{2}\right)\right)$$

$$2\sin\frac{\alpha}{2}\cos\frac{\beta}{2} = \sin\left(\frac{\alpha+\beta}{2}\right)$$

$$\cancel{\sin\left(\frac{\alpha+\beta}{2}\right)} + \sin\left(\frac{\alpha-\beta}{2}\right) = \cancel{\sin\left(\frac{\alpha+\beta}{2}\right)}$$

$$\sin\frac{\alpha-\beta}{2} = 0 \longrightarrow \boxed{\alpha=\beta}$$

$\frac{\alpha-\beta}{2} = \pi k$ כאשר $k \neq 0$ לא מתאים למשולש IIc