$$\sin(\alpha \cdot \beta) = \sin^2\alpha - \sin^2\beta$$

$$\sin(\alpha-\beta) = (\sin\alpha - \sin\beta)(\sin\alpha + \sin\beta)$$

$$\sin(\alpha \cdot \beta) = 2\sin\frac{\alpha-\beta}{2}\cos\frac{\alpha+\beta}{2} \cdot 2\sin\frac{\alpha+\beta}{2}\cos\frac{\alpha+\beta}{2}$$

$$\sin(\alpha \cdot \beta) = \sin(\alpha-\beta)\sin(\alpha+\beta)$$

$$\sin(\alpha \cdot \beta)\left[1 - \sin(\alpha+\beta)\right] = 0$$

$$\downarrow \qquad\qquad\qquad \downarrow$$

$$\alpha - \beta = \pi k \qquad\qquad 1 = \sin(\alpha+\beta)$$

k=0 עבור $\qquad\qquad \alpha+\beta = \dfrac{\pi}{2} + 2\pi k$

$\boxed{\alpha = \beta}$ $\qquad\qquad$ k=1 עבור

שווה $\qquad\qquad \alpha+\beta = 90$

שוקיים $\qquad\qquad \boxed{\gamma = 90}$

משולש ישר זווית