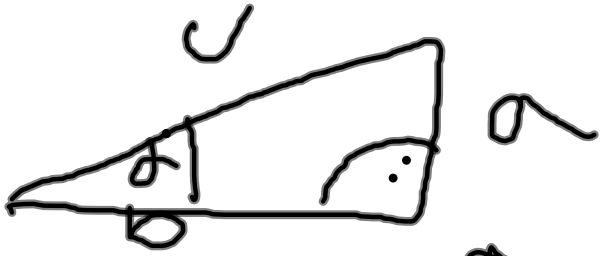
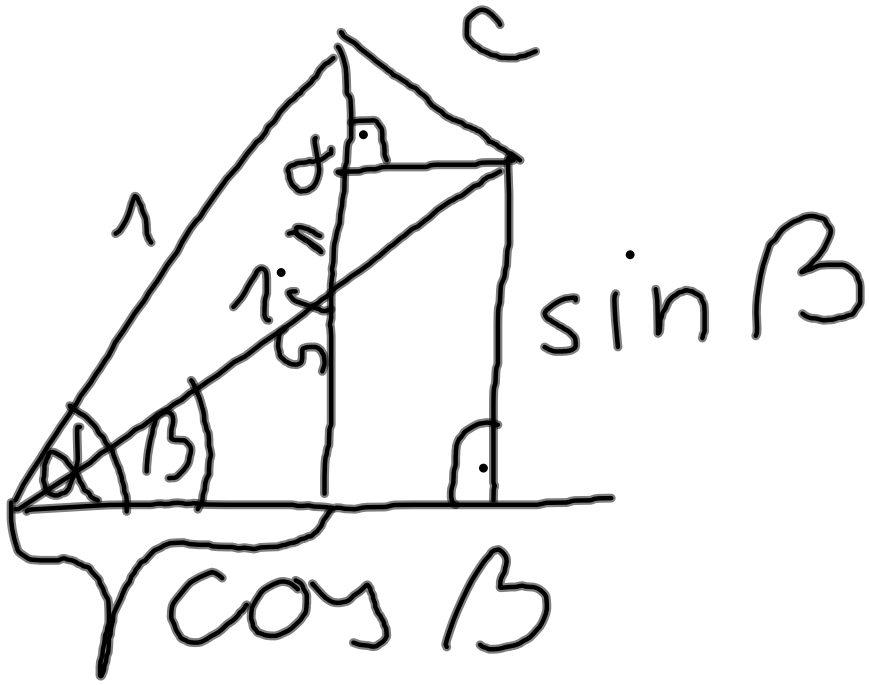



$$a^2+b^2-c^2$$

$$\sin\alpha = \frac{a}{c}$$

$$\cos\alpha = \frac{b}{c}$$

$$\frac{a^2}{c^2} + \frac{b^2}{c^2} - \frac{a^2+b^2}{c^2} = 1$$




cos α

$$c^2 = 1^2 + 1^2 - 2 \cdot 1 \cdot 1 \cdot \cos(\alpha - \beta)$$

$$c^2 = (\sin\alpha - \sin\beta)^2 + (\cos\beta - \cos\alpha)^2$$

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

$$\cos(\alpha \mp \beta) = \underline{\cos\alpha \cdot \cos\beta} \pm \sin\alpha \cdot \sin\beta$$

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

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

$$= \sin\alpha \cdot \cos\beta \mp \cos\alpha \cdot \sin\beta$$

$$\cos 2\alpha = \cos^2\alpha - \sin^2\alpha$$

$$\sin 2\alpha = 2\sin\alpha \cdot \cos\alpha$$

$$\cos^2 x + \sin^2 x = 1$$

$$2\cos^2 x + \sin^2 x - \cos^2 x = 1$$

$$2\cos^2 x - \cos 2x = 1$$

$$2\cos^2 x = 1 + \cos 2x$$

$$\cos x = \sqrt{\frac{1+\cos 2x}{2}}$$

$$\cos \frac{\alpha}{2} = \sqrt{\frac{1-\cos \alpha}{2}}$$

$$\cos^2 x + \sin^2 x = 1$$

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