

1) $\frac{1}{2} \sin 2\alpha + \frac{1}{2} \cos 2\alpha = \frac{1}{2} \sqrt{2} \sin(\alpha + 45^\circ)$
 $\frac{1}{2} \sqrt{2} \sin(\alpha + 45^\circ) = \frac{1}{2} \sqrt{2} \sin 45^\circ = \frac{1}{2}$
 $\sin(\alpha + 45^\circ) = 1$
 $\alpha + 45^\circ = 90^\circ$
 $\alpha = 45^\circ$

Beispiel

- 1) $\sin \alpha = \frac{1}{2}$, $\alpha \in [0, 90^\circ]$. $\alpha = 30^\circ$
- 2) $\cos \alpha = \frac{1}{2}$, $\alpha \in [0, 90^\circ]$. $\alpha = 60^\circ$

II.

Beispiel
2.13.2'93.

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