

2.80
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$$\tan(\alpha - \beta) = \frac{\sin(\alpha - \beta)}{\cos(\alpha - \beta)} = \frac{\sin\alpha\cos\beta - \cos\alpha\sin\beta}{\cos\alpha\cos\beta + \sin\alpha\sin\beta}$$

$\alpha, \beta \neq 90^\circ + 180^\circ k$ $\alpha, \beta \neq 90^\circ + 180^\circ k$ (h3) rek $\cos\alpha\cos\beta$? für $\sqrt{1}$

$$= \frac{\frac{\sin\alpha\cos\beta}{\cos\alpha\cos\beta} - \frac{\cos\alpha\sin\beta}{\cos\alpha\cos\beta}}{\frac{\cos\alpha\cos\beta}{\cos\alpha\cos\beta} + \frac{\sin\alpha\sin\beta}{\cos\alpha\cos\beta}} = \frac{\tan\alpha - \tan\beta}{1 + \tan\alpha\tan\beta}$$

$$\tan(90 - \beta) = \cot\beta \quad \text{für } 90 = \beta, \alpha \quad \text{rek}$$