

This is the first mathematical formula

$$\sin^2(t)^2 + \cos^2(t) = 1. \quad (\text{Ich bin toll})$$

This is another formula

$$\cos^2(t) = \frac{1}{1 + \tan^2(t)}. \quad (1)$$

As one may see from relation (1), $\cos(t)$ and $\sin(t)$ can be determined by $\tan(t)$...

This is the third formula

$$|a + b|^2 = |a|^2 + |b|^2 \quad (2)$$

Clearly equality (2) holds for $a, b \in \mathbb{R}^n$ if and only if $(a|b) = 0$, where the scalar product $(\cdot|\cdot)$ on \mathbb{R}^n is defined to be

$$(a|b) := a \cdot b = \sum_{j=1}^n a_j b_j, \quad |a|^2 := (a|a).$$

(Note that the above equation is *not* numbered).

$$e = mc^2 \quad (3)$$

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This is the list:

Ich bin toll	1
2	1
3 Mass-energy equivalence from list option	1
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