

A

3) Zjednodušte výrazy:

b)  $\cos 2x + \sin 2x \cdot \operatorname{tg} x$

*Vzorce :*

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

$$\sin 2x = 2 \sin x \cos x$$

$$\operatorname{tg} x = \frac{\sin x}{\cos x}$$

$$\begin{aligned} \cos 2x + \sin 2x \cdot \operatorname{tg} x &= \cos^2 x - \sin^2 x + 2 \sin x \cos x \cdot \frac{\sin x}{\cos x} = \cos^2 x - \sin^2 x + 2 \sin^2 x = \\ &= \cos^2 x + \sin^2 x = 1 \end{aligned}$$

[Zpět:](#)

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