

$$\begin{aligned}\operatorname{tg} 15^\circ + \operatorname{ctg} 15^\circ &= \frac{\sin 15^\circ}{\cos 15^\circ} + \frac{\cos 15^\circ}{\sin 15^\circ} = \frac{\sin^2 15^\circ + \cos^2 15^\circ}{\sin 15^\circ \cos 15^\circ} = \\ &= \frac{2}{2 \sin 15^\circ \cos 15^\circ} = \frac{2}{\sin 30^\circ} = \frac{2}{\frac{1}{2}} = 4.\end{aligned}$$

(Neumann Frida, Budapest.)