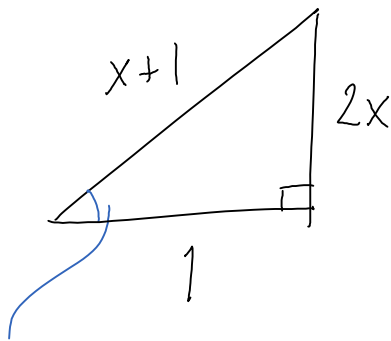


$$\frac{2x}{1}$$

Finn $x > 0$ så att $\tan^{-1}(2x) = \cos^{-1}\left(\frac{1}{x+1}\right)$

—
Vi ritar "modelltriangel"



$$\tan^{-1}\left(\frac{2x}{1}\right) = \cos^{-1}\left(\frac{1}{x+1}\right)$$

Vi får $1^2 + (2x)^2 = (x+1)^2$

\Leftrightarrow

$$1 + 4x^2 = x^2 + 2x + 1$$

\Leftrightarrow

$$3x^2 - 2x = 0$$

\Leftrightarrow

$$x = 0 \quad \text{eller} \quad x = \frac{2}{3}$$
