Zadatak 2. Izračunaj vrijednost brojevnog izraza $\dfrac{\sin x - \sin y}{\cos x + \cos y}$ ako je $x = \dfrac{3\pi}{4}, \; y = \dfrac{5\pi}{4}$.

Rješenje.

$$\frac{\sin x - \sin y}{\cos x + \cos y} = \frac{\sin \dfrac{3\pi}{4} - \sin \dfrac{5\pi}{4}}{\cos \dfrac{3\pi}{4} + \cos \dfrac{5\pi}{4}} = \frac{\dfrac{\sqrt{2}}{2} - \left(-\dfrac{\sqrt{2}}{2}\right)}{-\dfrac{\sqrt{2}}{2} + \left(-\dfrac{\sqrt{2}}{2}\right)} = \frac{\dfrac{2\sqrt{2}}{2}}{0} = \frac{\sqrt{2}}{0} = \infty$$