Simplify $(1-i)e^{i\pi/4}$

Modern Physics - Quiz 1 9/12/2019

Simplify $(1-i)e^{i\pi/4}$

$$(1-i)e^{i\pi/4} = \sqrt{2}e^{-i\pi/4}e^{i\pi/4} = \sqrt{2}$$