

PROBLEM:

Convert the following to rectangular form:

$$(a) z = 3\sqrt{2} e^{-j(3\pi/4)}$$

$$(b) z = 5e^{j(\pi/2)}$$

$$(c) z = 4 \angle (\pi/3)$$

$$(d) z = 5 \angle (-61\pi)$$

Give numerical values for the real and imaginary parts.