

EE 3340
Homework Problem #001

Several complex numbers are given in various forms below. Complete the table by filling in the missing entries. *All angles should be in degrees.*

Rectangular Form	Polar Form	Exponential Form
$2 + j2$	$2\sqrt{2} \angle 45^\circ$	$2\sqrt{2} e^{j45^\circ}$
3 or $3 + j0$	$3 \angle 0^\circ$	3 or $3e^{j0}$
$1 - j$	$\sqrt{2} \angle -45^\circ$	$\sqrt{2} e^{-j45^\circ}$
$2 - j2$	$2\sqrt{2} \angle -45^\circ$	$2\sqrt{2} e^{-j45^\circ}$