

## Homework Problem #002

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

Rectangular Form	Polar Form	Exponential Form
$2 + j2$	$2\sqrt{2} \angle \frac{\pi}{4}$	$2\sqrt{2} e^{j\pi/4}$
$-j5$ or $0 - j5$	$5 \angle -\frac{\pi}{2}$	$5 e^{-j\pi/2}$
$-1 + j$	$\sqrt{2} \angle \frac{3\pi}{4}$	$\sqrt{2} e^{j\frac{3\pi}{4}}$
$-7$ or $-7 + j0$	$7 \angle \pi$	$7 e^{j\pi}$