

Fill in the Blanks

Different Forms of Complex Numbers

$x + iy$	$r(\cos \theta + i \sin \theta) \quad [-\pi < \theta \leq \pi]$	$re^{i\theta}$
	$\sqrt{2} \left(\cos \frac{\pi}{4} + i \sin \frac{\pi}{4} \right)$	
$-2 + 2\sqrt{3}i$		
		$5e^{-\frac{\pi i}{3}}$
	$7 \left(\cos \left(-\frac{\pi}{2} \right) + i \sin \left(-\frac{\pi}{2} \right) \right)$	
	$\cos \frac{3\pi}{4} + i \sin \frac{3\pi}{4}$	
$-\frac{\sqrt{3}}{3} + \frac{1}{3}i$		
		$10e^{-\frac{\pi i}{6}}$
$-\sqrt{6}$		
		$2e^{\frac{19\pi i}{4}}$
$-3 - i$		
		$9e^{-6\pi i}$
$2.77 + 1.15i$	$3 \left(\cos \left(\frac{\pi}{8} \right) + i \sin \left(\frac{\pi}{8} \right) \right)$	
$-\frac{1}{2}$		$\frac{1}{2}e^{-3\pi i}$
	$8 \left(\cos \frac{2\pi}{3} - i \sin \frac{2\pi}{3} \right)$	