

Fill in the Blanks

Multiplying and Dividing in Modulus-Argument Form

z_1 in $a + bi$ and modulus-argument form	z_2 in $a + bi$ and modulus-argument form	$z_1 z_2$ in $a + bi$ and modulus-argument form	$\frac{z_1}{z_2}$ in $a + bi$ and modulus-argument form
$\sqrt{3} + i$		$-4\sqrt{3} + 4i$	
$2 \left(\cos \left(\frac{\pi}{6} \right) + i \sin \left(\frac{\pi}{6} \right) \right)$	$4 \left(\cos \left(\frac{2\pi}{3} \right) + i \sin \left(\frac{2\pi}{3} \right) \right)$		$\frac{1}{2} \left(\cos \left(-\frac{\pi}{2} \right) + i \sin \left(-\frac{\pi}{2} \right) \right)$
$\frac{5}{2} + \frac{5\sqrt{3}}{2}i$		$\frac{5\sqrt{3}}{2} + \frac{5}{2}i$	
	$\cos \left(-\frac{\pi}{6} \right) + i \sin \left(-\frac{\pi}{6} \right)$		
	$-2i$		$\frac{1}{2}$
$\sqrt{2} \left(\cos \left(\frac{\pi}{4} \right) + i \sin \left(\frac{\pi}{4} \right) \right)$			
			$-9i$
$3 \left(\cos \left(-\frac{3\pi}{4} \right) + i \sin \left(-\frac{3\pi}{4} \right) \right)$		$\cos(-\pi) + i \sin(-\pi)$	
	$-2\sqrt{3} - i$		
			$2 \left(\cos \left(\frac{2\pi}{3} \right) + i \sin \left(\frac{2\pi}{3} \right) \right)$