

Fill in the Blanks

De Moivre's Theorem

$(x + iy)^n$	$(r(\cos \theta + i \sin \theta))^n$	$r^n(\cos n\theta + i \sin n\theta)$	$a + bi$
$(\sqrt{3} + i)^4$	$\left(2 \left(\cos \frac{\pi}{6} + i \sin \frac{\pi}{6}\right)\right)^4$	$16 \left(\cos \frac{2\pi}{3} + i \sin \frac{2\pi}{3}\right)$	$-8 + 8\sqrt{3}i$
$(1 - i)^5$			
$(1 + \sqrt{3}i)^7$			
	$\left(4 \left(\cos \frac{5\pi}{6} + i \sin \frac{5\pi}{6}\right)\right)^{-2}$		
$(\quad)^3$		$16\sqrt{2} \left(\cos \left(-\frac{3\pi}{4}\right) + i \sin \left(-\frac{3\pi}{4}\right)\right)$	
$\left(\frac{1}{2} + \frac{\sqrt{3}}{2}i\right)^{-6}$			
$(3 + 4i)^5$			
	$\left(\sqrt{6} \left(\cos \frac{\pi}{3} - i \sin \frac{\pi}{3}\right)\right)^4$		