



Convert Between Representations of Complex Numbers

Part 1:

Cartesian	Cis form	Euler	Sketch Argand diagram
1			
i			
-1			
-i			
$1+i$			
$1-i$			
$-1+i$			
$-1-i$			



Cartesian	Cis form	Euler	Argand diagram to help
$1 - \sqrt{3}i$			
$-\sqrt{3} + i$			
$-\sqrt{3} - i$			
	$3cis\left(\frac{\pi}{2}\right)$		
	$2cis\left(\frac{\pi}{6}\right)$		
		$6e^{\frac{4\pi}{3}i}$	
		$10e^{\frac{11\pi}{6}i}$	
		$e^{\frac{7\pi}{4}i}$	



Part 2:

Write the following in Cartesian and Cis form. You may use your previous results to help.

Question	Cartesian form	Cis form
$(1 + i)(1 - i)$		
$(1 - \sqrt{3}i)(1 - i)$		
$\frac{-1 - i}{3i}$		
$\frac{-1 - i}{1 + i}$		