1 Representations of Complex Numbers–Table

Fill out the table above that asks you to do several simple complex number calculations in rectangular, polar, and exponential representations.

	Representation		
	Rectangular	**Polar**	**Exponential**
z	$x+iy$	$r\cos\varphi + ir\sin\varphi$	$re^{i\varphi}$
z^*			
$zz^* = \lvert z\rvert^2$			
z^2			