1. For the vector field $F(x, y) = \langle -y, x \rangle$, write the outputs corresponding to the following inputs:

(x, y)	$\mathbf{F}(x, y)$
$(1, 0)$	
$(0, 1)$	
$(-1, 0)$	
$(0, -1)$	
$(1, 1)$	
$(-1, 1)$	
$(-1, -1)$	
$(1, -1)$	

2. Sketch the vector field from Question 1: