

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

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

2. Sketch the vector field from Question 1:

