## Exercise 11

Match the vector fields F with the plots labeled I-IV. Give reasons for your choices.

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

[TYPO: This should be in bold.]

## Solution

This vector field corresponds with plot IV. As $|x|$ gets larger, so should the vector magnitude. In addition, the vectors point up when $y$ is negative and point down when $y$ is positive.


