## Curl examples

For each of the following:

1. Look at the small "rectangular" curve in the given vector field. Compute the curl as a circulation density.
2. Compute the curl using the cartesian expression in terms of partial derivatives.
3. Compare your results from 1 and 2 .

Example 1: $\vec{F}=x \hat{\imath}$



Example 2: $\vec{F}=y \hat{\imath}$



Example 3: $\vec{F}=x \hat{\imath}+y \hat{\jmath}$



Example 4: $\vec{F}=-y \hat{\imath}+x \hat{\jmath}$



