1. For each of the problems below, say whether you expect the given vector field to have positive, negative, or zero circulation counterclockwise around the closed curve $C$ in the figure shown at the right. Two of the segments of $C$ are circular arcs centered at the origin; the other two are radial line segments. You may find it helpful to sketch the vector field.
(a) $\overrightarrow{\boldsymbol{G}}=x \hat{\boldsymbol{\imath}}+y \hat{\boldsymbol{\jmath}}$
(b) $\overrightarrow{\boldsymbol{H}}=y \hat{\boldsymbol{\imath}}-x \hat{\boldsymbol{\jmath}}$

