Use Green’s Theorem

\[ \oint_C [M \, dx + N \, dy] = \int \int_R \left( \frac{\partial N}{\partial x} - \frac{\partial M}{\partial y} \right) \, dx \, dy, \]

where \( R \) is a planar region whose counterclockwise boundary is \( C \), to evaluate the counterclockwise circulation of the vector field

\[ \mathbf{F} = (y^2 - x^2)\mathbf{i} + (x^2 + y^2)\mathbf{j} \]

over the triangle bounded by \( y = 0 \), \( x = 3 \), and \( y = x \).
Name ______________________________