18.4: Green's Theorem

Calculus III

College of the Atlantic. Winter 2016

Evaluate

$$\oint_{C_2} \vec{F} \cdot d\vec{r} , \qquad (1)$$

where C_2 is a circle of radius 3 centered at (4,4) and

$$\vec{F} = (x^2 - 2y)\hat{i} - x\hat{j} . {2}$$

Use Green's theorem. Trust me.