

Section 16.4-16.5 Review

MVC

• Section 16.4 - Green's Theorem

Positive Orientation -

Green's Theorem $C:$
 $D =$
 P, Q



Notation:

* Green's Theorem Extends:

Ex. Compute $\int_C \vec{F} \cdot d\vec{r}$, $\vec{F} = \langle y - \cos y, x \sin y \rangle$ $C: (x-3)^2 + (y+4)^2 = 2^2$ clockwise

• Section 16.5 - Curl and Divergence

$$\vec{F} = \langle P, Q, R \rangle$$

$$\text{Curl } \vec{F} =$$

* Rate of change in

$$\text{div } \vec{F} =$$

* Rate of change in

Theorems

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Ex. Find Curl and divergence of $\vec{F} = \langle xye^z, 0, yze^x \rangle$