

HOMEWORK 10

- (1) Let U be an open set in \mathbb{R}^3 . Recall that if $\gamma : [a, b] \rightarrow U$ is a parametrization of a curve and $f : U \rightarrow \mathbb{R}$ is a function, then the generalized Stokes' theorem reduces to $\int_{\gamma([a, b])} df = f(\gamma(b)) - f(\gamma(a))$. Do the following problems from the textbook: Section 16.3: 14, 16.