

## Math 2415

### Concept Quiz Questions on 16.2

1. State the formula for the integral,  $\int_C f \, ds$ , of a function,  $z = f(x, y)$ , over a curve,  $(x, y) = \mathbf{r}(t)$ , in the plane.
2. State the formula for the integral,  $\int_C \mathbf{F} \cdot d\mathbf{s}$ , of a vector field over an oriented curve.
3. What happens if you reverse the orientation of the curve  $C$  in the integral,  $\int_C \mathbf{F} \cdot d\mathbf{s}$ , of a vector field over  $C$ ?