## LINE INTEGRALS

1. Evaluate $\int_{C} x y d s$ where $C$ is the unit circle traversed once in the counterclockwise direction.
2. Evaluate $\int_{C} x y d x$ where $C$ is the unit circle traversed once in the counterclockwise direction.
3. Evaluate $\int_{C} x y d y$ where $C$ is the unit circle traversed once in the counterclockwise direction.
4. Evaluate $\int_{C} x y d s$ where $C$ is the straight line from $(0,0)$ to $(2,4)$.
5. Evaluate $\int_{C} x y d x$ where $C$ is the straight line from $(0,0)$ to $(2,4)$.
6. Evaluate $\int_{C} x y d y$ where $C$ is the straight line from $(0,0)$ to $(2,4)$.
7. Evaluate $\int_{C} x d s$ where $C$ is the curve $y=x^{2}$ where $0 \leq x \leq 1$.
8. Evaluate $\int_{C} x d x$ where $C$ is the curve $y=x^{2}$ where $0 \leq x \leq 1$.
9. Evaluate $\int_{C} x d y$ where $C$ is the curve $y=x^{2}$ where $0 \leq x \leq 1$.
