

Selected solutions for worksheets from Math 53 (U.C. Berkeley's multivariable calculus course).

25. Line Integrals

Questions

2.

Replacing \mathbf{F} with $-\mathbf{F}$ changes each integral of F_i to its negative.

3.

Replacing C with C' changes each $\frac{dx_i}{dt}$ to its negative, so the whole thing is replaced with its negative.

Problems

2.

All are equal to $\sqrt{2}$.

3.

All are equal to 0.