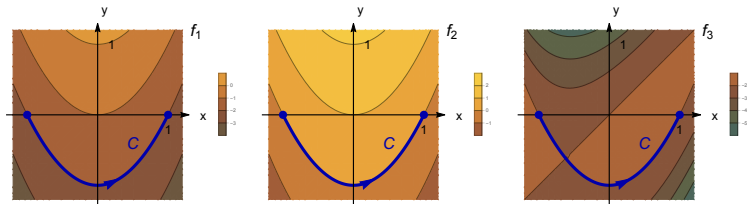


Line Integrals

Question

The figures show the same oriented curve C in the contour plots of functions f_1 , f_2 , and f_3 . Lighter colors indicate higher values. Rank the integrals $I_j = \int_C f_j(x, y) ds$.



- A. $I_1 = I_3 < I_2$ B. $I_1 = I_2 = I_3$
 C. $I_2 < I_1 = I_3$ D. $I_1 < I_2 < I_3$
 E. There is not enough information.