

Surface Integrals

Question

The figures show four parallel disks S_i , two of radius 1 and two of radius 2. Rank the integrals $I_j = \iint_{S_j} x dS$.

- A. $I_1 < I_2 < I_3 < I_4$
- B. $I_4 < I_3 < I_2 < I_1$
- C. $I_2 = I_3 < I_1 = I_4$
- D. $I_1 = I_4 < I_2 = I_3$

