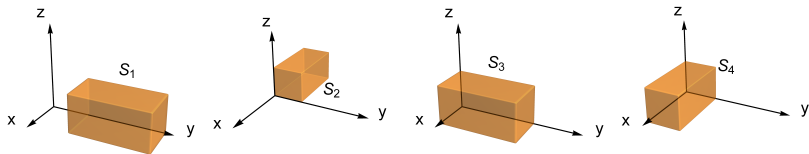


Triple Integrals

Question

The solids S_k ($k = 1, 2, 3, 4$) shown are all congruent. Rank the triple integrals $I_k = \iiint_{S_k} x \, dV$ from smallest to largest.



- A. $I_1 < I_2 < I_3 < I_4$
 C. $I_2 < I_1 = I_3 < I_4$
 E. $I_2 < I_1 < I_3 < I_4$

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