



Question

For the plane $y = x$, rank the following quantities in order from smallest to largest.

- I. The distance from $(1, 0, 0)$ to the plane.
- II. The distance from $(-1, 1, 0)$ to the plane.
- III. The distance from $(1, 1, 2)$ to the plane.

- A. $I < II < III$
- B. $I = II < III$
- C. $III < I < II$
- D. $III < I = II$
- E. None of these.