Estimate the thickness of a page in a textbook.

1. 10^0 m
2. 10^{-1} m
3. 10^{-2} m
4. 10^{-3} m
5. 10^{-4} m

6. 10^{-5} m
7. 10^{-6} m
8. 10^{-7} m
9. 10^{-8} m

Vectors

- If a position vector (displacement from the origin) lies in each of the four indicated quadrants, what can you say about the vector representation of that displacement, $\vec{r} = x\hat{i} + y\hat{j}$

A. x and y are both positive

B. x and y are both negative

C. x is positive and y is negative

D. x is negative and y is positive