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Math Screening

AT Aneesa Tabas...

Let $v = [1, 2]$ be a vector in the plane and let $A = 2\left[\begin{bmatrix} 1/\sqrt{2} \\ -1/\sqrt{2} \end{bmatrix}, \begin{bmatrix} 1/\sqrt{2} \\ 1/\sqrt{2} \end{bmatrix}\right]$. What is $(A^8)v$?

A) v ☐ B) $256 v$ ☐

C) $[128, 0]$ ☐ D) $-v$ ☐

Submit Answer

Consider the subset of the real line $A = (-\infty, 0]$. Which of the following are open sets (there may be more than 1 correct answer)?

A) $A \cap [0, 1]$ ☐ B) $A \cap (-\infty, -1)$ ☐

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A) $A \cap [0, 1]$ ☐ B) $A \cap (-\infty, -1)$ ☐

C) $A \cap \{1/2\}$ ☐ D) $A \cap (-1, 1)$ ☐

E) $A \cap (0, 1)$ ☐

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