

[« Previous \(/course/cs357-f15/flow-session/74248/7/\)](/course/cs357-f15/flow-session/74248/7/)[下一页 »](#)[结束 »](#)

[1](#) [2](#) [3](#) [\(/course/cs357-f15/flow-session/74248/0/\)](/course/cs357-f15/flow-session/74248/0/) [\(/course/cs357-f15/flow-session/74248/1/\)](/course/cs357-f15/flow-session/74248/1/)
[4](#) [\(/course/cs357-f15/flow-session/74248/2/\)](/course/cs357-f15/flow-session/74248/2/) [\(/course/cs357-f15/flow-session/74248/3/\)](/course/cs357-f15/flow-session/74248/3/) [\(/course/cs357-f15/flow-session/74248/4/\)](/course/cs357-f15/flow-session/74248/4/)
[5](#) [6](#) [\(/course/cs357-f15/flow-session/74248/5/\)](/course/cs357-f15/flow-session/74248/5/) [\(/course/cs357-f15/flow-session/74248/6/\)](/course/cs357-f15/flow-session/74248/6/) [\(/course/cs357-f15/flow-session/74248/7/\)](/course/cs357-f15/flow-session/74248/7/)

Norm Criteria

1分

For a vector

$$\vec{x} := \begin{bmatrix} x \\ y \\ z \end{bmatrix}, \quad \text{is} \quad \|\vec{x}\| = x^2 + y^2 \quad \text{a norm?}$$

选项*

- ☐ Yes.
- ☐ No, because it does not satisfy $\|\vec{x}\| = 0 \Leftrightarrow \vec{x} = 0$
- ☐ No, because it does not satisfy $\|\alpha\vec{x}\| = |\alpha|\|\vec{x}\|$.
- ☐ No, because it does not satisfy $\|\vec{x}\| \geq 0$
- ☐ No, because it does not satisfy $\|\vec{x} + \vec{y}\| \leq \|\vec{x}\| + \|\vec{y}\|$.

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