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TO PASS 80% or higher **PRACTICE QUIZ • 30 MIN**

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GRADE
100%

Doing some vector operations

Doing some vector operations

TOTAL POINTS 7

1. This aim of this quiz is to familiarise yourself with vectors and some basic vector operations. **1 / 1 point**

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Grade
100%

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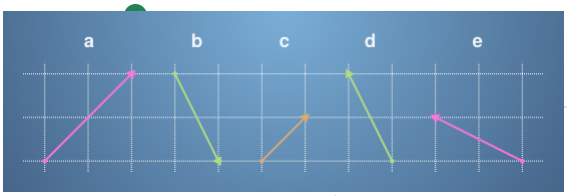
For the following questions, the vectors $\mathbf{a}$, $\mathbf{b}$, $\mathbf{c}$, $\mathbf{d}$ and $\mathbf{e}$ refer to those in this diagram:

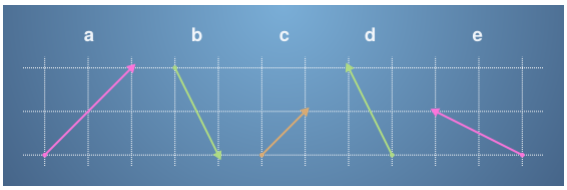


The sides of each square on the grid are of length 1. What is the numerical representation of the vector $\mathbf{a}$?

- (●) $\begin{bmatrix}2\\2\end{bmatrix}$
- ( ) $\begin{bmatrix}1\\1\end{bmatrix}$
- ( ) $\begin{bmatrix}1\\2\end{bmatrix}$
- ( ) $\begin{bmatrix}2\\1\end{bmatrix}$

Correct
You can get the numerical representation by following the arrow along the grid.

2. **1 / 1 point**

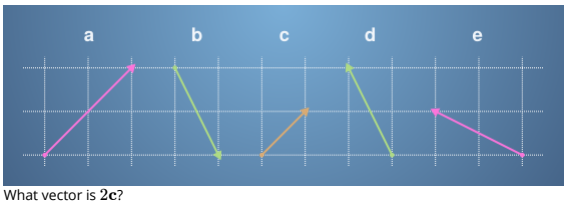


Which vector in the diagram corresponds to $\begin{bmatrix}-1\\2\end{bmatrix}$?

- ( ) Vector $\mathbf{a}$
- ( ) Vector $\mathbf{b}$
- ( ) Vector $\mathbf{c}$
- (●) Vector $\mathbf{d}$

Correct
You can get the numerical representation by following the arrow along the grid.

3. **1 / 1 point**



What vector is $2\mathbf{c}$?

Please select all correct answers.

- [x] $\mathbf{a}$

Correct
Multiplying by a positive scalar is like stretching out a vector in the same direction.