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Vector operations assessment
Graded Assignment • 15 min

🌐 English ∨   **Due**   Feb 16, 11:59 PM WIB

Your grade: 100%

Your latest: **100%** • Your highest: **100%**

To pass you need at least 80%. We keep your highest score.

Next item →

1. In this assessment, you will be tested on all of the different topics you have in covered this module. Good luck!   **1 / 1 point**

   A ship travels with velocity given by $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$, with current flowing in the direction given by $\begin{bmatrix} 1 \\ 1 \end{bmatrix}$ with respect to some co-ordinate axes.

   What is the velocity of the ship in the direction of the current?

   ○ $\begin{bmatrix} 3/2 \\ 2/3 \end{bmatrix}$

   ⦿ $\begin{bmatrix} 3/2 \\ 3/2 \end{bmatrix}$

   ○ $\begin{bmatrix} 2/3 \\ 3/2 \end{bmatrix}$

   ○ $\begin{bmatrix} 2/3 \\ 2/3 \end{bmatrix}$

   ⊘ **Correct**

   This is the vector projection of the velocity of the ship onto the velocity of the current.

$\begin{bmatrix} 2 \end{bmatrix}$ **1 / 1 point**