





< Previous

 ✓

 ✓

 ✓

 ✓

Next >

1.3.1 Equality (=), Assignment (:=), and Copy

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1.3.1 Equality (=), Assignment (:=), and Copy

And then we're going to look at how to

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2

Decide if the two vectors are equal.

 Calculator

The vector represented geometrically in \mathbb{R}^2 by an arrow from point $(-1, 2)$ to point $(0, 0)$ and the vector represented geometrically in \mathbb{R}^2 by an arrow from point $(1, -2)$ to point $(2, -1)$ are equal.

FALSE

✔ Answer: FALSE

The vector from $(-1, 2)$ to point $(0, 0)$ is given by $\begin{pmatrix} 0 - (-1) \\ 0 - 2 \end{pmatrix} = \begin{pmatrix} 1 \\ -2 \end{pmatrix}$

Similarly, the vector from $(1, -2)$ to point $(2, -1)$ is given by $\begin{pmatrix} 2 - 1 \\ -1 - (-2) \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$

They are not equal!

The vector represented geometrically in \mathbb{R}^3 by an arrow from point $(1, -1, 2)$ to point $(0, 0, 0)$ and the vector represented geometrically in \mathbb{R}^3 by an arrow from point $(1, 1, -2)$ to point $(0, 2, -4)$ are equal.

TRUE

✔ Answer: TRUE

The vector from $(1, -1, 2)$ to point $(0, 0, 0)$ is given by $\begin{pmatrix} 0 - 1 \\ 0 - (-1) \\ 0 - 2 \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \\ -2 \end{pmatrix}$

Similarly, the vector from $(1, 1, -2)$ to point $(0, 2, -4)$ is given by $\begin{pmatrix} 0 - 1 \\ 2 - 1 \\ -4 - (-2) \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \\ -2 \end{pmatrix}$

They are equal!

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