MITx 18.02.1x
Multivariable Calculus 1: Vectors and Derivatives

Help   sandipan_dey ⌄

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🏠 Course / Unit 2: Geometry of Derivatives / Recitation 5: Scaffolded worked example   🕐

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2. Sketching vectors

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Recitation due Aug 18, 2021 20:30 IST   Completed

Practice

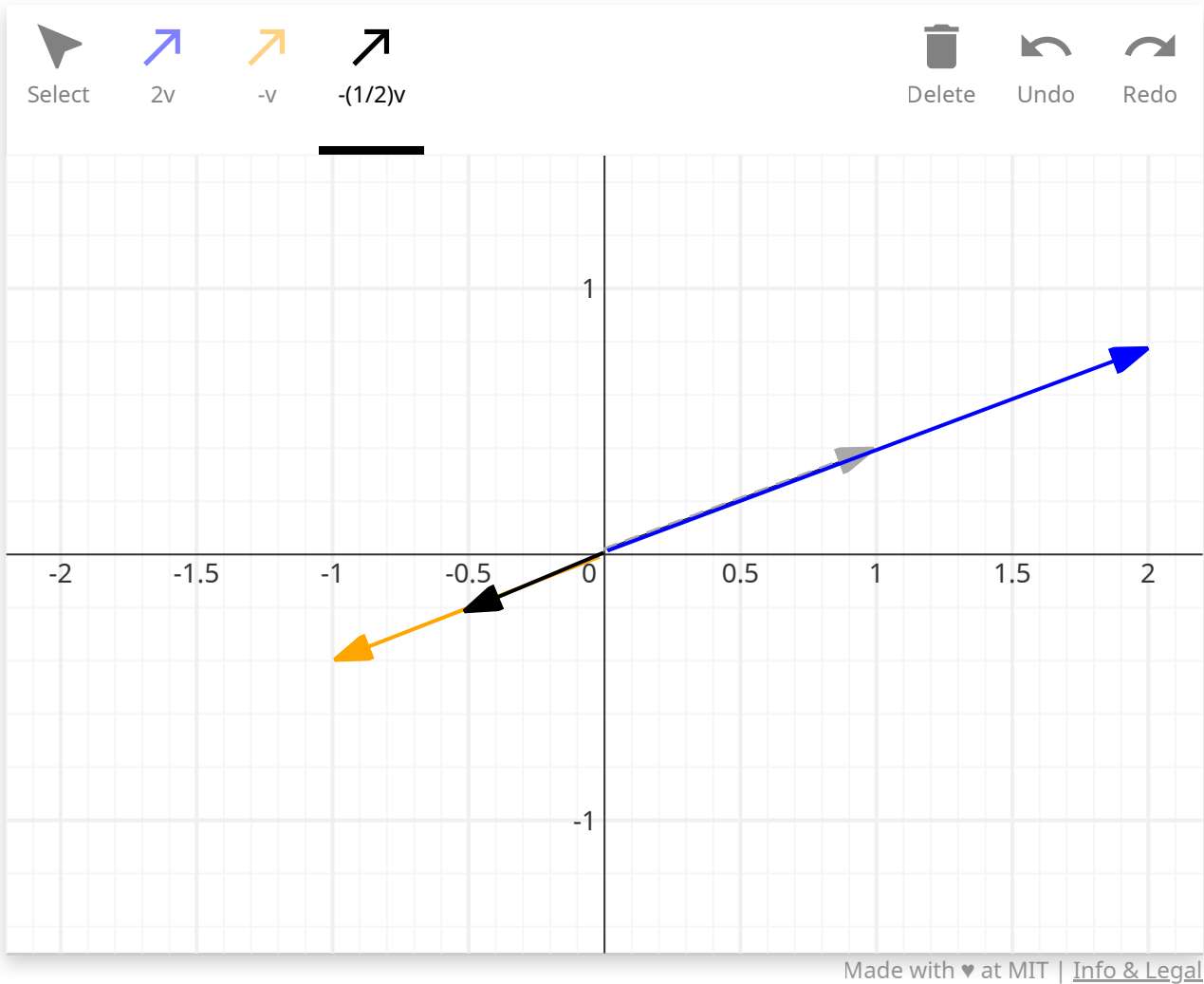## Scaling vectors

1.0/1 point (graded)
In the sketching area below there is a picture showing a vector $\vec{v}$ as a gray dotted arrow.

Draw $2\vec{v}$, $-\vec{v}$, and $(-1/2)\,\vec{v}$.

(Note that vectors can start at any point in the plane. Only the direction and magnitude are graded.)

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Answer: See solution.

✔

Well done

Solution:

Check your answer against the answers shared on the forum. (Or post your own answer!)

Submit   You have used 1 of 25 attempts

ℹ️   Answers are displayed within the problem

## Finding components in particular directions

1.0/1 point (graded)
Here is a picture showing a vector $\vec{v}$ (the solid blue arrow) and a unit vector $\vec{u}$ (the dashed black arrow). Draw the vector $(\vec{v} \cdot \vec{u})\,\vec{u}$.

(Note that you can edit your vectors by choosing the select tool. Click on the middle of ... g
entire arrow around, or click on the start or end point to change the location. Use the ...

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entire arrow around, or click on the start or end point to change the location. Use the ungraded vector to assist your drawing the graded orange vector.)
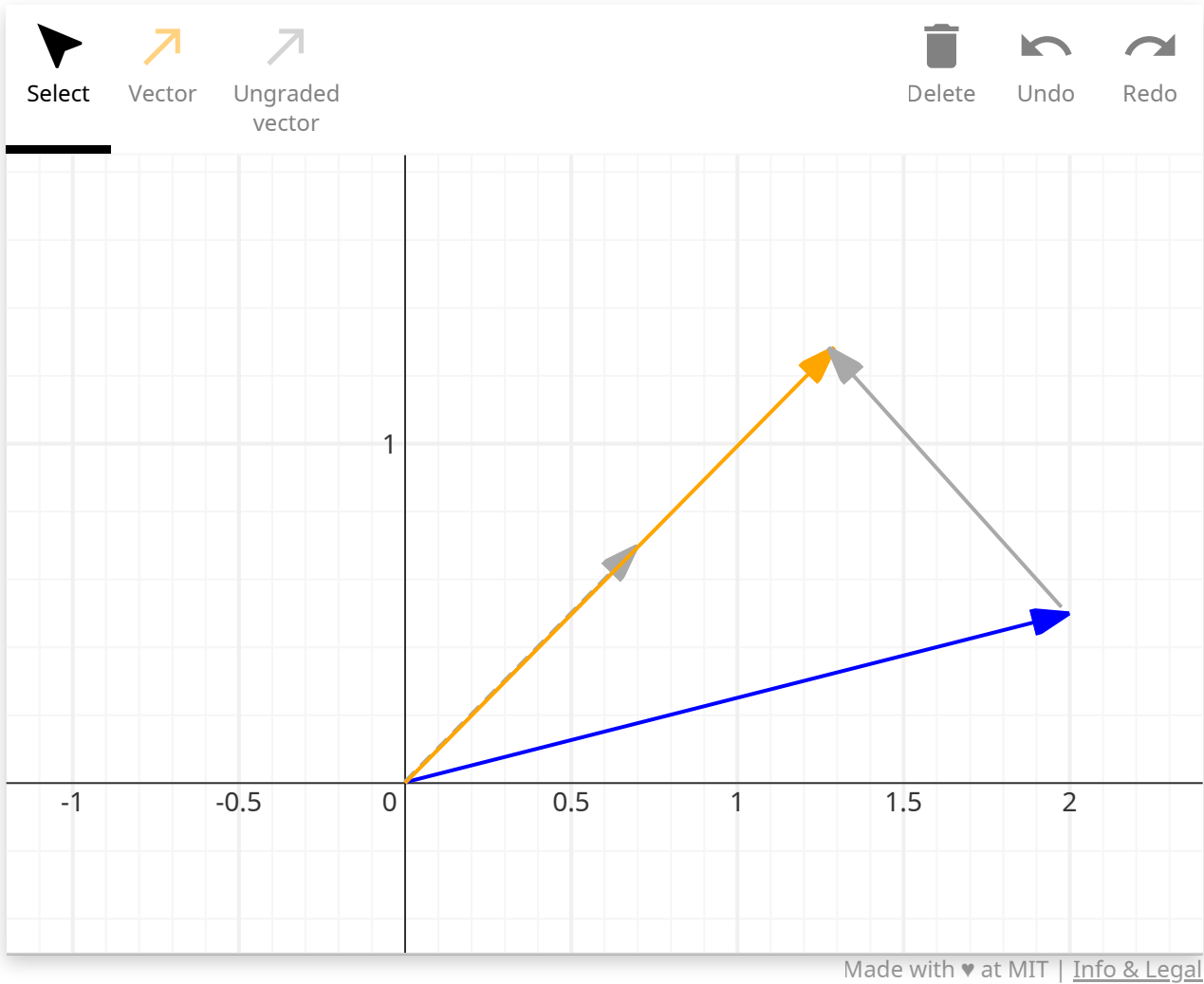
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Answer: See solution.

✔

Well done

Solution:

Check your answer against the answers shared on the forum. (Or post your own answer!)

Submit	You have used 1 of 25 attempts

ℹ Answers are displayed within the problem

2. Sketching vectors

Topic: Unit 2: Geometry of Derivatives / 2. Sketching vectors

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☑ **Can we share our full solutions to the problem "Finding components in particular directions"?**
The question is self-contained in the title.   **2**

💬 **second question**
Any hints of vector (v.u)u?   **6**

💬 **minor typo**
Hello, "vectors can start a any point" needs a "t." Graphs where the tic marks on the horizontal and the vertical axes are different [w...   **1**

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