<u>Help</u>

sandipan_dey >

<u>Calendar</u> **Discussion** <u>Notes</u> <u>Course</u> <u>Progress</u> <u>Dates</u>

☆ Course / Unit 2: Geometry of Derivat... / Lecture 4: Introduction to vectors and dot pro...

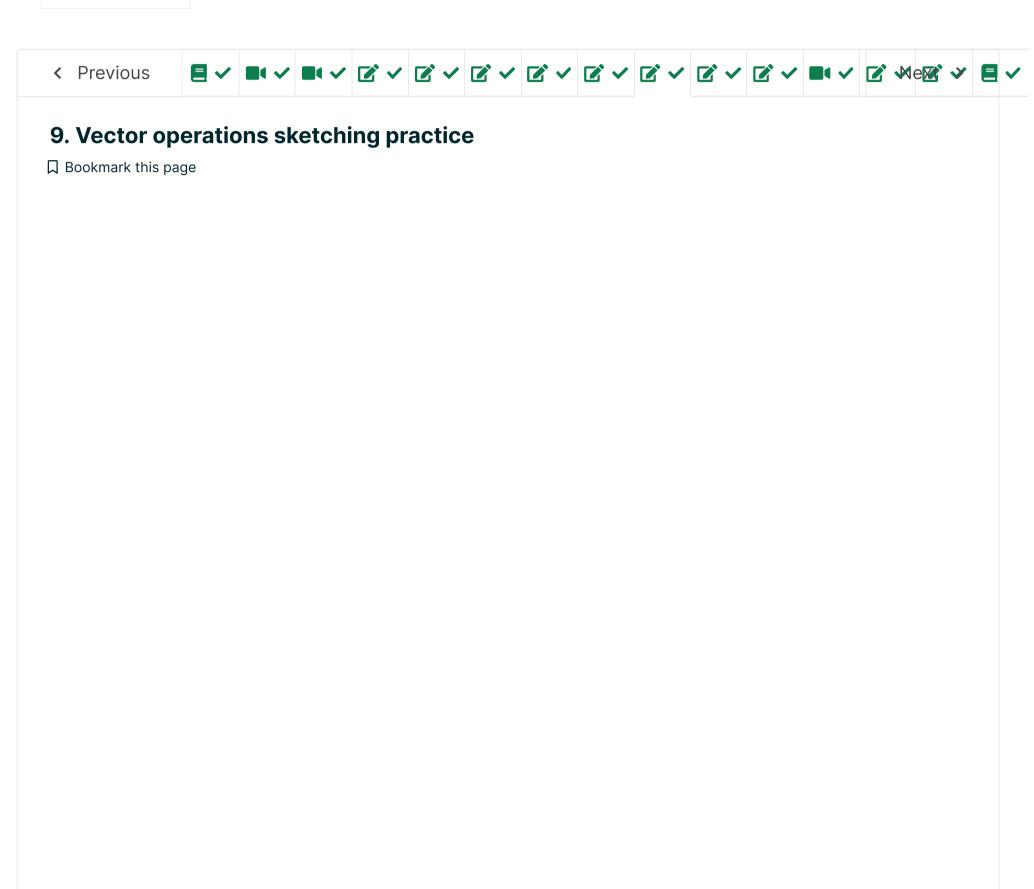


You are taking "Exam (Timed, No Correctness Feedback)" as a timed exam. Show more

End My Exam

44:19:36





Lecture due Aug 18, 2021 20:30 IST Completed



Practice

Sketch the vectors: addition

1.0/1 point (graded) Let

$$ec{v}=\langle 2,-1
angle,$$

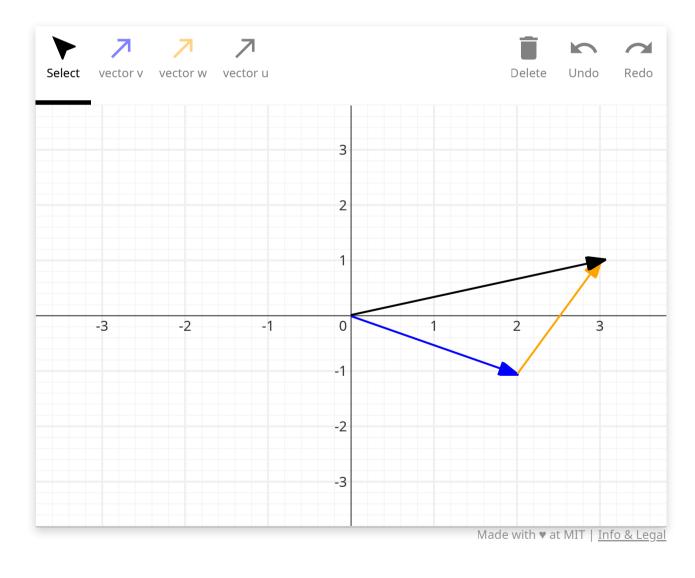
$$ec{w}=\langle 1,2
angle,$$

and

$$ec{u} = ec{v} + ec{w}.$$

Sketch the vector \vec{v} in blue, the vector \vec{w} in orange, and the vector \vec{u} in black.

You can move a drawn arrow around the page using the select button an clicking on the arrow to drag it around the canvas. To edit a drawn arrow, click select and then click and drag either the start or end point of the vector.



Answer: See solution.



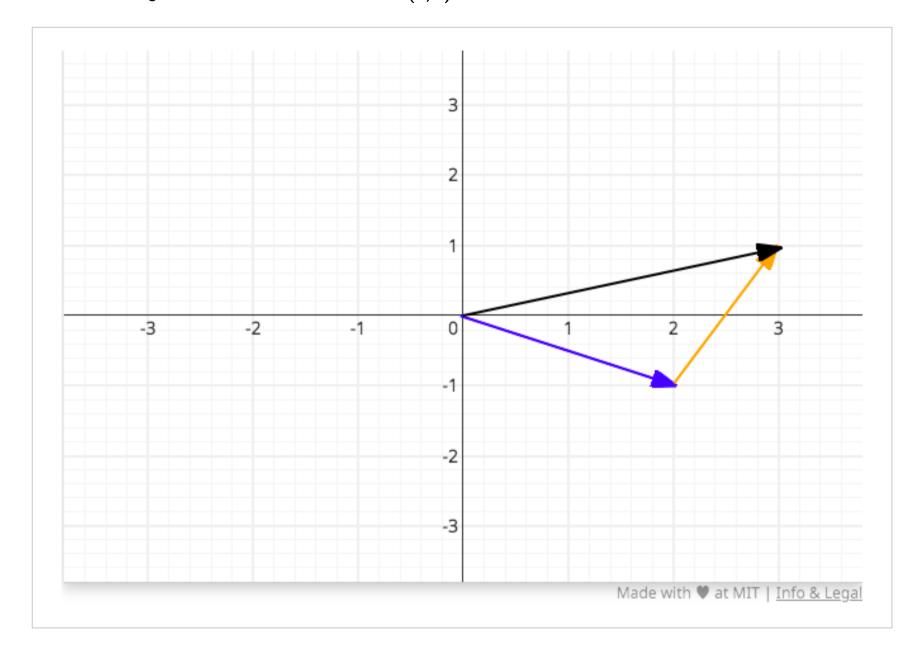
Well done

Solution:

The vector $\vec{v}=\langle 2,-1 \rangle$ begins at the origin and extends to the coordinate (2,-1). The vector $\vec{w}=\langle 1,2 \rangle$ can be drawn to begin at the point (2,-1) and extends to the coordinate (3,1). The vec

$$\vec{u} = \vec{v} + \vec{w} = \langle 2, -1 \rangle + \langle 1, 2 \rangle = \langle 2 + 1, -1 + 2 \rangle = \langle 3, 1 \rangle \tag{3.18}$$

starts at the origin and extends to the coordinate (3,1).



Submit

You have used 1 of 25 attempts

1 Answers are displayed within the problem

Sketch the vectors: subtraction

1.0/1 point (graded)

Let

$$ec{v}=\langle 2,-1
angle,$$

$$ec{w}=\langle 1,2
angle,$$

and

$$ec{u} = ec{v} - ec{w}$$
.

Sketch the vector \vec{v} in blue, the vector \vec{w} in orange, and the vector \vec{u} in black.

You can move a drawn arrow around the page using the select button an clicking on the arrow to drag it around the canvas. To edit a drawn arrow, click select and then click and drag either the start or end point of the vector.



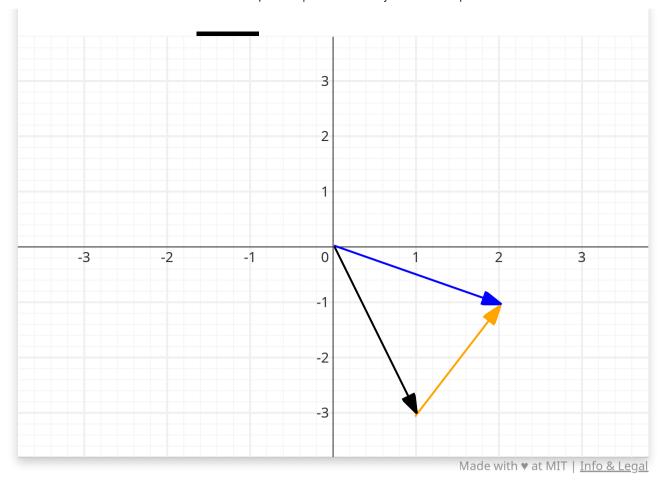












Well done

Previous

Next >

© All Rights Reserved



edX

About

Affiliates

edX for Business

Open edX

Careers

<u>News</u>

Legal

Terms of Service & Honor Code

Privacy Policy

Accessibility Policy

Trademark Policy

<u>Sitemap</u>



Connect

<u>Blog</u>

Contact Us

Help Center

Media Kit

Donate















© 2021 edX Inc. All rights reserved.

深圳市恒宇博科技有限公司 <u>粤ICP备17044299号-2</u>