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9. Warm up 2

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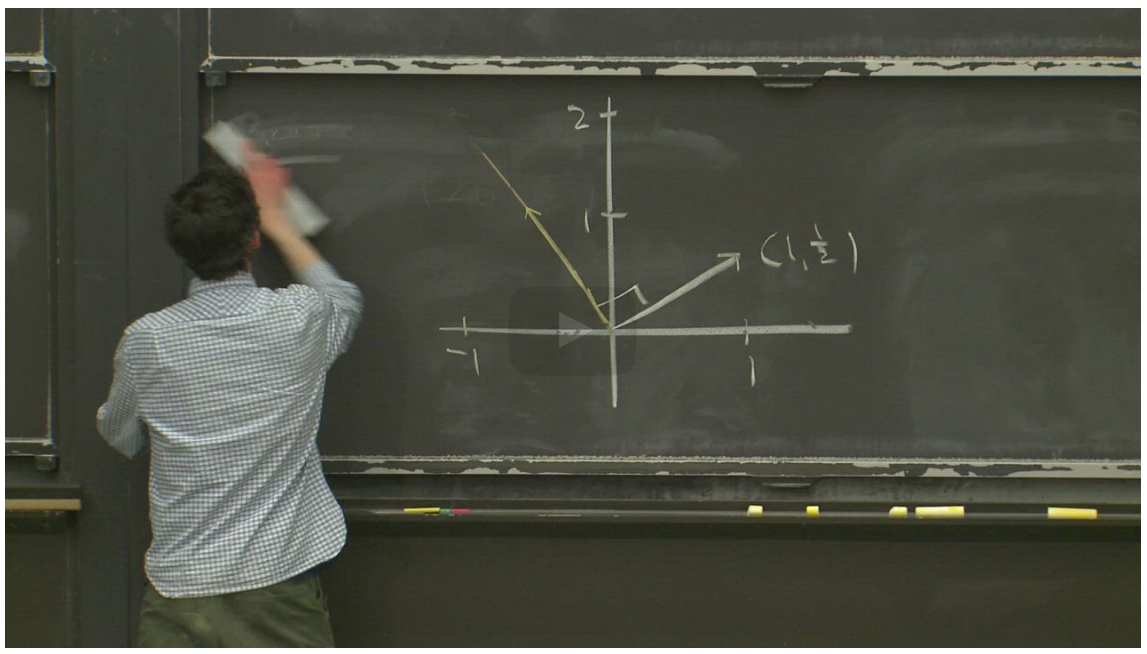
Geometry warm up problem setup



0:00 / 0:00 2.0x

Start of transcript. Skip to the end.

PROFESSOR: Now I have a question for you

about the geometry of dot products,

about kind of visualizing what dot products mean.

OK, so here we go.

So suppose I have a vector v over here.

And then I have a vector u over here.

And imagine extending u as a straight line.

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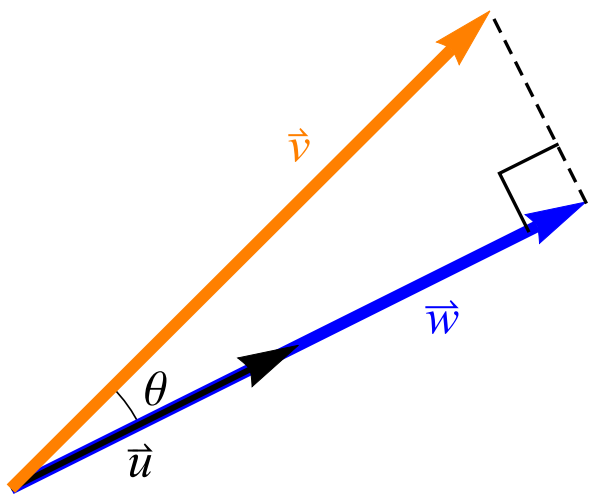
Consider the following vectors where $\vec{u}$ and $\vec{w}$ are in the same direction.



POLL
In the diagram above, which of the following is true? (Try watching the next video for a hint to get started!)

RESULTS

$\vec{u} \cdot \vec{v} > \vec{u} \cdot \vec{w}$	**13%**
$\vec{u} \cdot \vec{v} < \vec{u} \cdot \vec{w}$	**38%**
$\vec{u} \cdot \vec{v} = \vec{u} \cdot \vec{w}$	**47%**
I do not know how to think about this yet	**1%**

Submit

Results gathered from 569 respondents.

FEEDBACK

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FEEDBACK

Your response has been recorded

Hints for getting started

0:00 / 0:00 2.0x

Start of transcript. Skip to the end.

PROFESSOR: Let's check in what people are thinking,

and then we'll see, maybe we'll talk about it some more.

So just based on where you are now, make your best guess.

Or you can say you've got to talk about it more.

If it looks to you like u dot v is bigger, thumbs up.

If it looks to you like they're equal,

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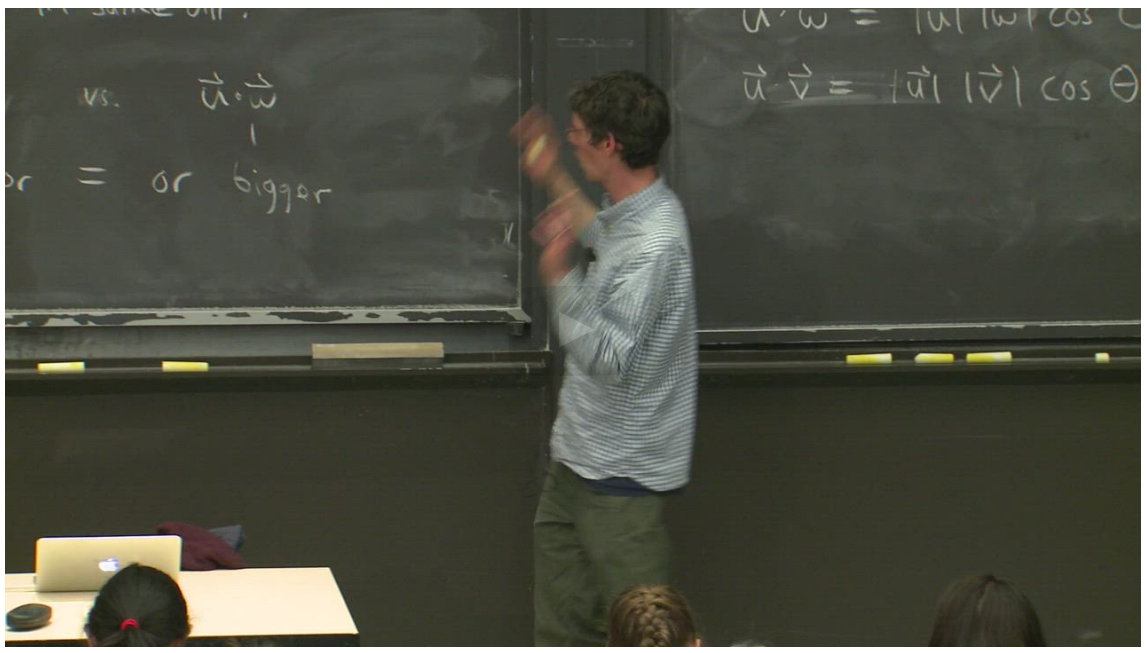
Solution



0:00 / 0:00 2.0x

Start of transcript. Skip to the end.

PROFESSOR: So having talked it over, we'll do one more poll

and then I'll tell you what the answer is.

If you think that u dot v is bigger, thumbs up.

If you think they're equal, thumbs up.

Right on.

OK.

They're equal to each other.

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9. Warm up 2

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