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#### Perpendicular vectors to parallel lines



Start of transcript. Skip to the end.

PROFESSOR: So any questions or comments?

Yeah.

STUDENT: What if we don't have a line that's exactly equal to 0?

PROFESSOR: OK.

Good.

So the question is, what if we don't have a line that's

exactly equal to 0?

In other words, instead of violus 1/2

0:00 / 0:00

▶ 2.0x X CC

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66

What if the line is not equal to zero? For example, what if it was  $x + \frac{1}{2}y = 1$ ?

#### **POLL**

Let  $l_0$  be the line x+y/2=0 and let  $l_1$  be the line x+y/2=1. /n What is the relationship between the lines  $\it l_0$  and  $\it l_1$ ?

# **RESULTS**

They are parallel. 97%

2% They are perpendicular.

I do not know how to think about this yet 1%

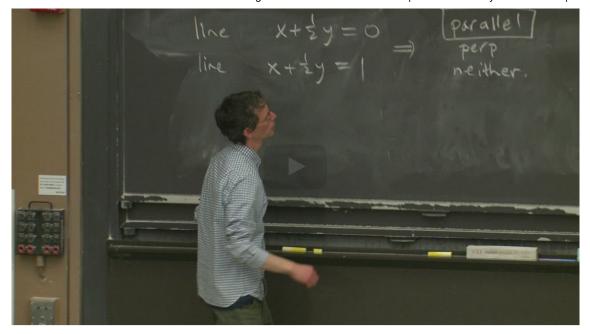
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#### **FEEDBACK**

Your response has been recorded

#### Reasoning



PROFESSOR: So how can we see that they're parallel?

Go back here where there actually was a picture of them.

All right.

OK, let me declutter this screen for a

OK, so what is this a picture of up here?

0:00 / 0:00

▶ 2.0x

X

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#### **⋄** More explanation, or a hint to the problem above

Because the lines  $l_0$  and  $l_1$  are parallel, the vector  $\langle 1,1/2 
angle$  will also be perpendicular to the line  $l_1$ . In other words, the same procedure we used for an equation like x+1/2y=0 will also work for x+1/2y=1.

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# 5. Parallel lines

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