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3. Visualize in 3-dimensions

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Calculator



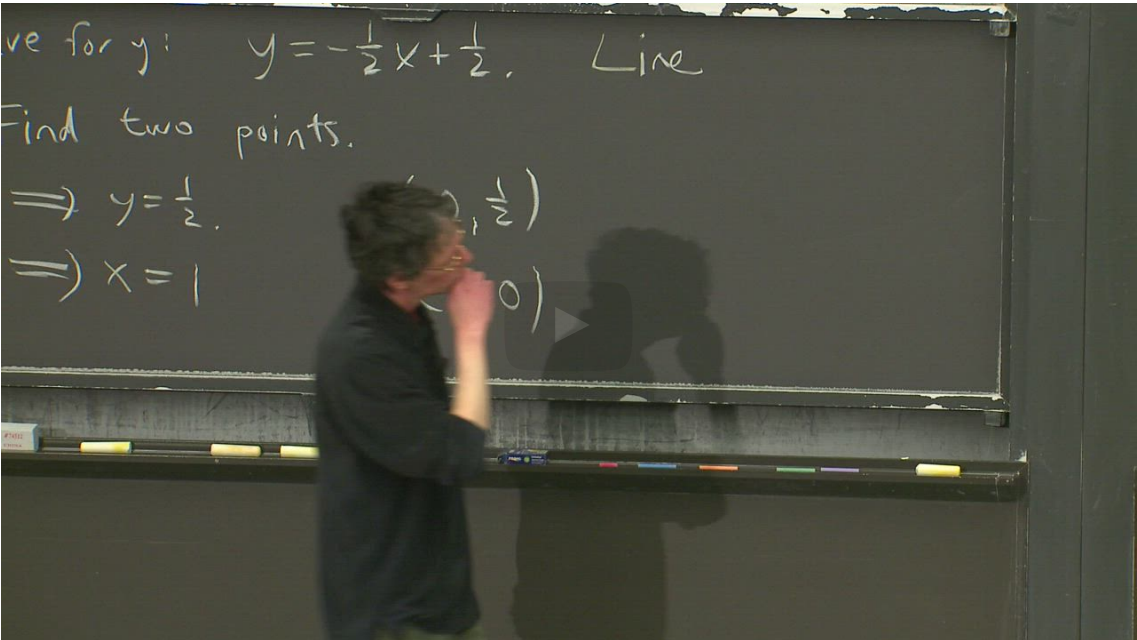
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Reflect

Question for you

Start of transcript. Skip to the end.



PROFESSOR: So we use the level curves partly to help us visualize the graph of the function. So the graph of the function would mean that the z-coordinate coming out of the board is equal to the value of the function. So I like to imagine it like a hiker's map, where you're looking down on a mountain



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VISUALIZATION POLL

Try to visualize the graph of $f(x,y) = x + 2y - 1$ in 3-dimensions.

Is it a plane or is it curved?

RESULTS

<input checked="" type="radio"/> Plane	94%
<input type="radio"/> Curved	5%
<input type="radio"/> I don't know	1%

Submit

Results gathered from 868 respondents.

3. Visualize in 3-dimensions

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Topic: Unit 1: Functions of two variables / 3. Visualize in 3-dimensions

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Plane

straight line curves are planes since it is a linear equation

2

Hyperplane

Community TA	
Minds eye: Cool opportunity to make an animation Not for nothing, but it'd be cool to make an animation where 1. the level curves are drawn 2-d as is. 2. they then rise up to the height...	3
Plane we saw a similar graph in recitation, given that it is a linear? function it produces a plane	1
"Feels" like a plane I don't have a good reason, but a plane just feels right. probably on of the worst ways of going about it. but let me head to the next p...	2
plane bc the effect each independent variable has on z is the same close to zero and close to infinity i think	2 new_ 4
linear terms Each of the terms in the equation is linear, so it must be a plane. That's my reasoning...	2



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