

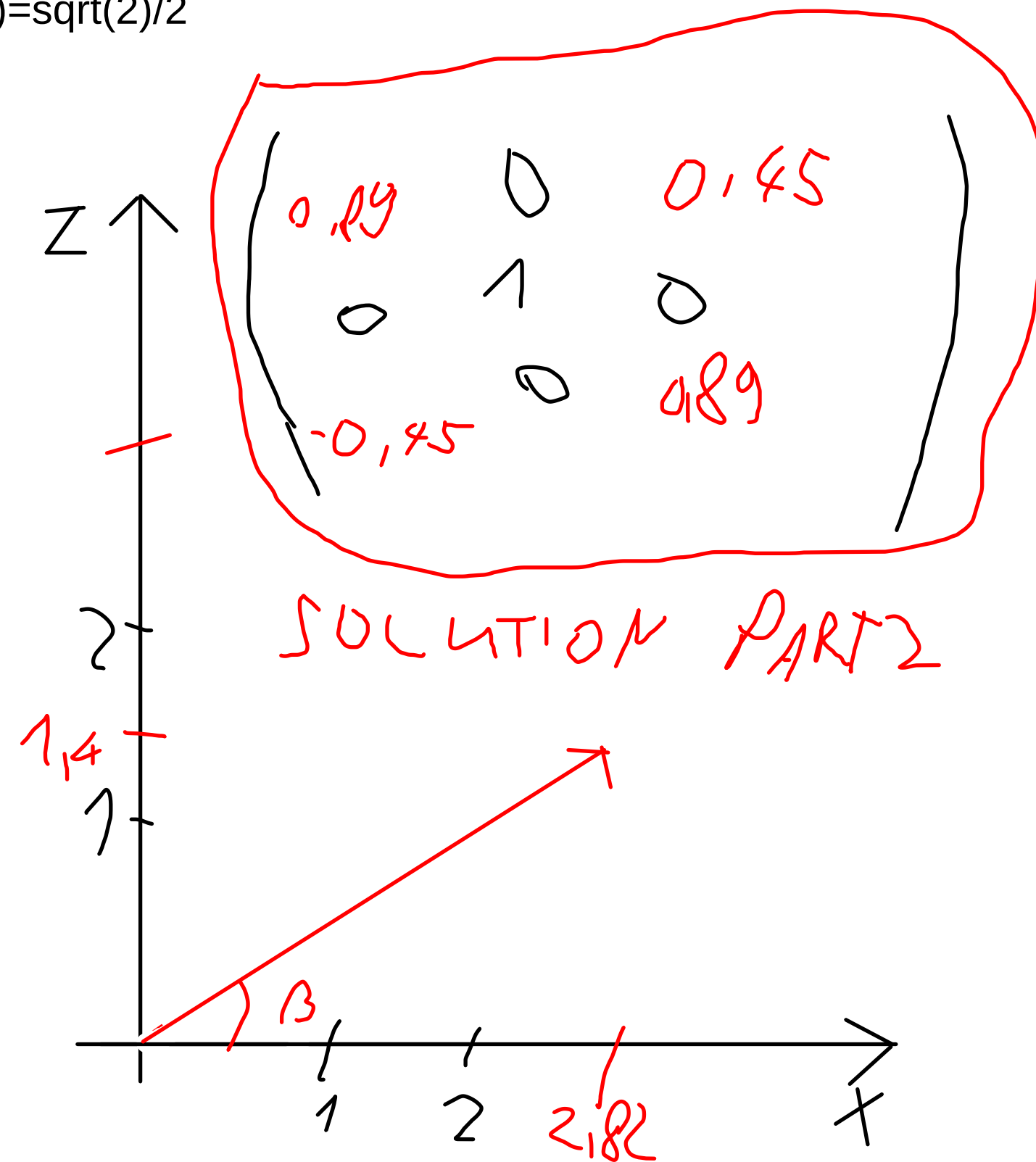
$$\cos(\alpha) = (1,0) \cdot (2,2) / (|(1,0)| \cdot |(2,2)|) = 2 / (1 \cdot \sqrt{8}) = 2/2/\sqrt{2} = 1/\sqrt{2} = \sqrt{2}/2$$

$$2^{0.5}/2 \begin{pmatrix} 1 & 1 & 0 \\ -1 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 2 \\ 2 \\ 2 \end{pmatrix} = 2^{0.5}/2 \begin{pmatrix} 4 \\ 0 \\ 2 \end{pmatrix}$$

$$\cos(\beta) = (1,0) \cdot (2\sqrt{2}, \sqrt{2}) / (1 \cdot (8+2)) = 2\sqrt{2}/10 = \sqrt{2}/5 = 0.4472$$

$\rightarrow 26.43^\circ$

$$\begin{pmatrix} 0.89 & 0 & 0.45 \\ 0 & 1 & 0 \\ -0.45 & 0 & 0.89 \end{pmatrix} \cdot \sqrt{2} \begin{pmatrix} 2 \\ 0 \\ 1 \end{pmatrix} = \begin{pmatrix} 3.1443 \\ 0 \\ 0 \end{pmatrix}$$



Matrix Multiplication Calculator - Google Chrome

Matrix Multiplication Cal x +

←

→

↺

🏠

matrix.reshish.com/multiplication.php

☆

🔖

📦

👤

⋮

🗖

YouTube

Térkép

Google Naptár

Space Science

Ürfizika Osztály

Minden könyvjelző

Determinant

Inverse Matrix

Matrix Power

Matrix Transpose

Matrix Multiplication

Matrix Addition/Subtraction

Back

Matrix A

	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>
1	0.89	0	0.45
2	0	1	0
3	-0.45	0	0.89

Matrix B

	B <sub>1</sub>
1	2.82
2	0
3	1.41

$$C_{11} = 0.89 \times 2.82 + 0 \times 0 + 0.45 \times 1.41 = 3.1443$$

	C <sub>1</sub>
1	3.1443
2	0
3	0

$$C_{21} = 0 \times 2.82 + 1 \times 0 + 0 \times 1.41 = 0$$

	C <sub>1</sub>
1	3.1443
2	0
3	0

$$C_{31} = -0.45 \times 2.82 + 0 \times 0 + 0.89 \times 1.41 = -0.0141$$

	C <sub>1</sub>
1	3.1443
2	0
3	-0.0141

Continue calculation

Result:

	C <sub>1</sub>
1	3.1443
2	0
3	-0.0141

BEST IN CLASS FOR CTV MONETIZATION

OKO