

Popunite odmah!

IME I PREZIME:

Domagoj Milić

BROJ INDEKSA:

17-2-0028-2010

DATUM:

VRIJEME: OD

13:20

DO

15:20

MATEMATIKA 1: Trajanje 100 minuta. Zabranjen je razgovor sa drugim studentima. ZADATKE RIJEŠAVATE

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JEDNOSTRANO NA PAPIRE KOJE DOBIJETE OD NASTAVNIKA.

Broj ↓
bodova

1. Koju relaciju zadovoljava inverz matrice? Provjeriti tu relaciju za inverz matrice (ako postoji)

$$A = \begin{bmatrix} 2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 2 \end{bmatrix}$$

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2. Pronaći sve kompleksne brojeve z takve da je $z^3 + |3i + 4| = \frac{5}{i^{233}}$.

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3. Odrediti domenu i sve asimptote funkcije $f(x) = \ln\left(\frac{x+5}{1-x}\right)$.

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4. Ispitati domenu, periodičnost, (ne)parnost i prvu derivaciju funkcije $g(x) = \cos(\sin(3x))$.

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5. Na temelju ispitivanja toka funkcije napraviti skicu grafa funkcije f iz zadatka 3.

UKUPNO: 50

$$\begin{array}{l}
 1) \begin{bmatrix} 2 & 0 & 0 & 1 & | & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & | & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 & | & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 2 & | & 0 & 0 & 0 & 1 \end{bmatrix} \sim \begin{bmatrix} 1 & 0 & 0 & 2 & | & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & | & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & | & 0 & 1 & 0 & 0 \\ 2 & 0 & 0 & 1 & | & 1 & 0 & 0 & 0 \end{bmatrix} \begin{array}{l} R_4 - 2R_1 \end{array}
 \end{array}$$

$$\begin{array}{l}
 \begin{bmatrix} 1 & 0 & 0 & 2 & | & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & | & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & | & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & -3 & | & 1 & 0 & 0 & -2 \end{bmatrix} \begin{array}{l} R_3 \cdot (-\frac{1}{3}) \end{array} \sim \begin{bmatrix} 1 & 0 & 0 & 2 & | & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & | & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & | & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & | & -\frac{1}{3} & 0 & 0 & \frac{2}{3} \end{bmatrix} \begin{array}{l} R_1 - 2R_4 \end{array}
 \end{array}$$

$$\sim \begin{bmatrix} 1 & 0 & 0 & 0 & | & \frac{2}{3} & 0 & 0 & -\frac{1}{3} \\ 0 & 1 & 0 & 0 & | & 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & | & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & | & -\frac{1}{3} & 0 & 0 & \frac{2}{3} \end{bmatrix}$$

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$$\begin{bmatrix} 2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 2 \end{bmatrix} \begin{matrix} A \\ \times \\ A^{-1} \end{matrix} = \begin{bmatrix} 2/3 & 0 & 0 & -1/3 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ -1/3 & 0 & 0 & 2/3 \end{bmatrix} = \begin{bmatrix} 4/3 + 0 + 0 - 1/3, & 0 + 0 + 0 + 0, & 0 + 0 + 0 + 0, & -2/3 + 0 + 0 + 2/3 \\ 0 + 0 + 0 + 0, & 0 + 0 + 1 + 0, & 0 + 0 + 0 + 0, & 0 + 0 + 0 + 0 \\ 0 + 0 + 0 + 0, & 0 + 0 + 0 + 0, & 0 + 1 + 0 + 0, & 0 + 0 + 0 + 0 \\ 2/3 + 0 + 0 - 2/3, & 0 + 0 + 0 + 0, & 0 + 0 + 0 + 0, & -1/3 + 0 + 0 + 1/3 \end{bmatrix}$$

$A = A^{-1}$ ✗
 $A A^{-1} = I$
 $A \neq A^{-1}$

$$z^3 + |3i+4| = \frac{5}{i}$$

$$z^3 = \frac{5}{i} - |3i+4|$$

$$z^3 = \frac{5}{i} - \sqrt{4^2+3^2}$$

$$z^3 = \frac{5}{i} - \sqrt{16+9}$$

$$z^3 = \frac{5}{i} - 5$$

$$z = \sqrt[3]{-5+5i}$$

$$\frac{5}{i} = \frac{5 \cdot -i}{i \cdot -i} = \frac{-5i}{1} = -5i$$

$$z = \sqrt[3]{-5-5i} \Rightarrow \varphi = \frac{5\pi}{4}$$

$$z = \sqrt[3]{5\sqrt{2}} \left(\cos \frac{1+2k\pi}{3} + i \sin \frac{1+2k\pi}{3} \right)$$

$$k = 0, 1, 2$$

$$z_0 = 1.919 \left(\cos \frac{3\pi}{4} + i \sin \frac{\pi}{4} \right) = 1.919 \left(\frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} i \right) = 1.356 + 1.356 i$$

$$z_1 = 1.919 \left(\cos \frac{3\pi}{4} + 2\pi + i \sin \frac{11\pi}{12} \right) = 1.919 \left(\frac{-\sqrt{6}-\sqrt{2}}{4} + \frac{\sqrt{6}-\sqrt{2}}{4} i \right) = -1.853 + 0.496 i$$

$$z_2 = 1.919 \left(\cos \frac{3\pi}{4} + 4\pi + i \sin \frac{19\pi}{12} \right) = 1.919 \left(\frac{\sqrt{6}-\sqrt{2}}{4} + \left(\frac{-\sqrt{6}-\sqrt{2}}{4} \right) i \right) = 0.496 - 1.853 i$$

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POGREŠNO JE ODREĐEN $\text{Im}(z)$, ALI OSTATAK JE UREDAN.

$$233:4 = 58$$

0

$$i^1 = i$$

$$x = -5$$

$$y = 5 \quad \times$$

$$r = \sqrt{(-5)^2 + 5^2}$$

$$= \sqrt{25+25} = \sqrt{50}$$

$$= 5\sqrt{2}$$

$$\approx 7.07$$

$$r = \sqrt{25} = 5$$

$5\sqrt{2}$ ✓

$$\tan \alpha = \frac{y}{x} = \frac{5}{-5} = -1$$



$$\alpha = \frac{1}{4}\pi$$

$$\beta = \pi - \alpha = \frac{3}{4}\pi$$

$$\sqrt[3]{5\sqrt{2}} = \sqrt[3]{7.07} = 1.91$$

3) (12) $\lim \left(\frac{x+5}{1-x} \right)$

$$\frac{x+5}{1-x} > 0 / 1-x \neq 0$$

$$1-x \neq 0$$

$$-x \neq -1$$

$$x \neq 1$$

$$(x+5)(1-x) > 0$$

$$x - x^2 + 5 - 5x$$

$$-x^2 - 4x + 5 / (-1)$$

$$x^2 + 4x - 5$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-4 \pm \sqrt{16 + 20}}{2}$$

$$= \frac{-4 \pm 6}{2}$$

$$x_1 = 1$$

$$x_2 = -5$$

f nije definirana za $x \geq 1$
NE POSTOJI $\lim_{x \rightarrow +\infty} f(x)$

V.A $\lim_{x \rightarrow \infty} \lim \left(\frac{x+5}{1-x} \right) \stackrel{L'H}{=} \left(\lim \left(\frac{x+5}{1-x} \right) \right)$

$$= \lim_{x \rightarrow \infty} \frac{\frac{1}{x}}{\frac{1}{-x}} = \frac{-1}{1} = -1$$

H.A $\lim_{x \rightarrow -5} \lim \left(\frac{x+5}{1-x} \right) = \lim_{x \rightarrow -5} \lim \left(\frac{-5+5}{1+5} \right) = \lim \frac{0}{6} = 0$

$$= \lim \frac{0}{6} = 0 \quad \times$$

~~$\lim_{x \rightarrow 0} f(x) = -\infty$~~

$x \rightarrow 0$

$\lim_{x \rightarrow 0} f(x) = -\infty$

Nema base

$$D(f) = [-5, 1] \setminus \{1\} \quad \times$$

$$D(f) = \langle -5, 1 \rangle$$

$f(-5)$ NE POSTOJI.

$-\infty$	-6	-5	0	1	2	$+\infty$
		-		+		-
$f(x)$						

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4) $g(x) = \cos(\sin(3x))$

$D(f) = \left\langle \frac{\pi}{3}, \frac{\pi}{3} \right\rangle$ X

$\sin(3x) > 0$

$3x \in \left\langle \pi, 2\pi \right\rangle / :3$

$x \in \left\langle \frac{\pi}{3}, \frac{2\pi}{3} \right\rangle$

2° f - ja je periodična jer je trigonometrijska, ponavlja se

S KOLIKIM PERIODOM?

3° \cos je parna f -ja

$\sin(-x) = -\sin(x)$ je neparna f -ja

KAKAV JE $g(x)$?

4° $g(x) = \cos(\sin(3x))$

$g'(x) = -\sin(\sin(3x)) \cdot (3x)'$

$= -\sin(\cos(3x)) \cdot 3$

$= -3 \sin(\cos(3x))$



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5)

$$f(x) = \ln\left(\frac{x+5}{1-x}\right)$$

$$f'(x) = \frac{1}{\frac{x+5}{1-x}} \cdot \frac{(x+5)' \cdot (1-x) + (x+5) \cdot (1-x)'}{(1-x)^2}$$

$$= \frac{1}{\frac{x+5}{1-x}} \cdot \frac{1 \cdot (1-x) + (x+5) \cdot (-1)}{(1-x)^2} \quad \checkmark$$

$$= \frac{1}{\frac{x+5}{1-x}} \cdot \frac{1-x+(-x-5)}{(1-x)^2} = \frac{1}{\frac{x+5}{1-x}} \cdot \frac{1-x-x-5}{(1-x)^2}$$

$$= \frac{1}{\frac{x+5}{1-x}} \cdot \frac{-x^2-4}{(1-x)^2} = \frac{1-x}{x+5} \cdot \frac{-x^2-4}{(1-x)^2} = \frac{-x^2-4+x^3+4x}{(x+5)(1-x)^2}$$

$$= \frac{x^3-x^2+4x-4}{(x+5)(1-x)^2}$$

Nulttočke

$$f(x) = 0$$

(0

$$\ln\left(\frac{x+5}{1-x}\right) = 0$$

$$\frac{x+5}{1-x} = 1$$

$$x+5 = 1-x$$

$$2x = -4$$

—

$$5) f'(x) = \frac{x^3 - x^2 + 4x - 4}{(x+5)(1-x)^2} \quad \times$$

$$f''(x) = \frac{(x^3 - x^2 + 4x - 4)' \cdot ((x+5)(1-x)^2) + (x^3 - x^2 + 4x - 4) \cdot ((x+5)(1-x)^2)' \cdot (1-x)'}{((x+5)(1-x)^2)^2}$$

$$= \frac{(3x^2 - 2x + 4) \cdot ((x+5)(1-x)^2) + (x^3 - x^2 + 4x - 4) \cdot (1 \cdot 2(1-x)) \cdot (-1)}{((x+5)(1-x)^2)^2}$$

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Popunite odmah!

IME I PREZIME: MATE IVIĆ

BROJ INDEKSA: 17-2-0008-2010

DATUM: VRIJEME: OD 14:00 DO 15:50

MATEMATIKA 1: Trajanje 100 minuta. Zabranjen je razgovor sa drugim studentima. ZADATKE RIJEŠAVATE JEDNOSTRANO NA PAPIRE KOJE DOBIJETE OD NASTAVNIKA.

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~~0~~

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1. $A = \begin{bmatrix} 2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 2 \end{bmatrix}$

$$\det A \begin{vmatrix} 2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 2 \end{vmatrix} \begin{matrix} \leftarrow \\ (-2) \end{matrix} \sim \begin{vmatrix} 0 & 0 & 0 & -3 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 2 \end{vmatrix} \begin{matrix} \leftarrow \\ 1 \cdot (-1) \end{matrix} \sim \begin{vmatrix} 0 & 0 & -3 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{vmatrix} \sim$$

$$\sim -1 \cdot (-1)^4 \begin{vmatrix} 0 & -3 \\ 1 & 0 \end{vmatrix} = - (0 \cdot 0 - (1 \cdot (-3))) \\ = - (0 - (-3)) \\ = - (0 + 3) \\ = -3 \neq 0$$

REGULARNA MATRICA
POSTOJI INVERZ (A^{-1})

$$\begin{bmatrix} 2 & 0 & 0 & 1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 1 \\ 1 & 0 & 0 & 2 & 1 & 0 & 0 & 1 \end{bmatrix} \begin{matrix} \leftarrow \\ (-2) \end{matrix} \sim \begin{bmatrix} 0 & 0 & 0 & -3 & 1 & 0 & 0 & -2 \\ 0 & 0 & 1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 1 \\ 1 & 0 & 0 & 2 & 1 & 0 & 0 & 1 \end{bmatrix} \begin{matrix} \leftarrow \\ \leftarrow \end{matrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 2 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -3 & 1 & 0 & 0 & -2 \end{bmatrix} \begin{matrix} \leftarrow \\ \leftarrow \end{matrix} \sim \begin{bmatrix} 1 & 0 & 0 & 2 & 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & -3 & 1 & 0 & 0 & -2 \end{bmatrix} \begin{matrix} \leftarrow \\ \leftarrow \\ \cdot (-\frac{1}{3}) \end{matrix}$$

A^{-1}
INVERZ

$$\begin{bmatrix} 1 & 0 & 0 & 2 & 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 & -\frac{1}{3} & 0 & 0 & \frac{2}{3} \end{bmatrix} \begin{matrix} \leftarrow \\ \leftarrow \\ \leftarrow \\ (-2) \end{matrix} \sim \begin{bmatrix} 1 & 0 & 0 & 0 & \frac{2}{3} & 0 & 0 & -\frac{1}{3} \\ 0 & 1 & 0 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 & -\frac{1}{3} & 0 & 0 & \frac{2}{3} \end{bmatrix} \begin{matrix} \leftarrow \\ \leftarrow \\ \leftarrow \\ \leftarrow \end{matrix}$$

✓
NASTAVAK →

$$-\frac{4}{3} + \frac{2}{3} = -\frac{2}{3}$$

IME I PREZIME: MATE VIĆ

BROJ INDEKSA: 17-2-0008-2010

NASTAVAK (1.) ZADATKA

$$A \cdot A^{-1}$$

$$\begin{bmatrix} 2 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 2 \end{bmatrix} \cdot \begin{bmatrix} \frac{2}{3} & 0 & 0 & -\frac{1}{3} \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ -\frac{1}{3} & 0 & 0 & \frac{2}{3} \end{bmatrix}$$

$$\left[\begin{array}{cccc} \frac{4}{3} + 0 + 0 - \frac{1}{3} & 0 + 0 + 0 + 0 & -0 + 0 + 0 + 0 & -\frac{2}{3} + 0 + 0 + \frac{2}{3} \\ 0 + 0 + 0 + 0 & 0 + 0 + 1 + 0 & 0 + 0 + 0 + 0 & 0 + 0 + 0 + 0 \\ 0 + 0 + 0 + 0 & 0 + 0 + 0 + 0 & 0 + 1 + 0 + 0 & 0 + 0 + 0 + 0 \\ \frac{2}{3} + 0 + 0 - \frac{2}{3} & 0 + 0 + 0 + 0 & 0 + 0 + 0 + 0 & -\frac{1}{3} + \frac{4}{3} \end{array} \right]$$

$$= \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

JEDINIČNA MATRICA

$$A \cdot A^{-1} = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \quad \checkmark$$

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$$(2) \sqrt[3]{z^3 + |3i + 4|} = \frac{5}{\sqrt[3]{1}}$$

$$z^3 = \frac{5}{\sqrt[3]{1}} - |3i + 4|$$

$$z^3 = \frac{5}{\sqrt[3]{1}} - (\sqrt{4^2 + (3)^2})$$

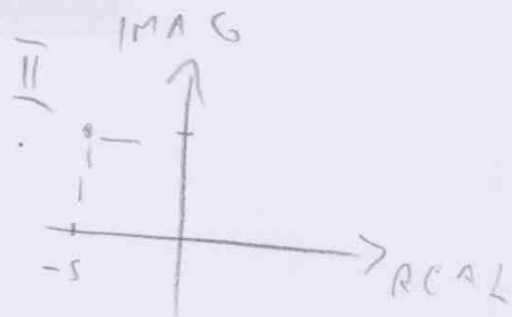
$$z^3 = \frac{5}{\sqrt[3]{1}} - (\sqrt{16 + 9})$$

$$z^3 = \frac{5}{\sqrt[3]{1}} - (\sqrt{25})$$

$$z^3 = \frac{5}{\sqrt[3]{1}} - 5$$

$$z^3 = \frac{5}{\sqrt[3]{1}} - 5 \sqrt[3]{}$$

$$z^3 = \sqrt[3]{\frac{5}{\sqrt[3]{1}} - 5}$$



TREBALO JE RACUNATI $\frac{5}{i} \cdot \frac{-i}{-i} = -5i$

$$z = \sqrt[3]{-5 - 5i} = \dots$$

NASTAVAK (2)

$$r = \sqrt{(-5)^2 + (-5)^2} = \sqrt{25 + 25} = \sqrt{50}$$

$$x = -5$$

$$y = -5$$

$$\arg z = \left| \frac{y}{x} \right| = \left| \frac{-5}{-5} \right| = \frac{5}{5} = 1$$

$$\arg z = 0,78539$$

$$\varphi = \pi - \varphi_0$$

$$\varphi = 3,1416 - 0,78539$$

$$\varphi = 2,35621$$

$$k=0 \quad \sqrt[n]{r} \left(\cos \frac{\varphi + 2k\pi}{n} + i \sin \frac{\varphi + 2k\pi}{n} \right)$$

$$\sqrt[3]{\sqrt{50}}$$

$$\sqrt[6]{50}$$

$$\sqrt[6]{50} \left(\cos \frac{2,35621 + 2 \cdot 0 \cdot \pi}{3} + i \sin \frac{2,35621 + 2 \cdot 0 \cdot \pi}{3} \right)$$

$$1,91938 \left(\cos \frac{2,35621}{3} + i \sin \frac{2,35621}{3} \right)$$

$$1,91938 \left(\cos (0,78540) + i \sin (0,78540) \right)$$

$$1,91938 (0,70710 + i \cdot 0,70710)$$

$$1,35719 + i \cdot 1,35719$$

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POGREŠNO JE ODREĐEN $\operatorname{Im}(z)$, ALI
OSTATAK JE UREĐAN.

NASTAVAK (2)

$$k=1 \quad 1,91938 \left(\cos \frac{2,35621 + 2 \cdot \pi}{3} + i \sin \frac{2,35621 + 2 \cdot \pi}{3} \right)$$

$$1,91938 \left(\cos(2,87380) + i \sin(2,87380) \right)$$

$$1,91938 (-0,96592 + i 0,25881)$$

$$\boxed{-1,85396 + i 0,49675}$$

$$k=2 \quad 1,91938 \left(\cos \frac{2,35621 + 4 \cdot \pi}{3} + i \sin \frac{2,35621 + 4 \cdot \pi}{3} \right)$$

$$1,91938 \left(\cos(4,97420) + i \sin(4,97420) \right)$$

$$1,91938 (0,25883 + i (-0,965922))$$

$$\boxed{0,49679 + i (-1,85397)}$$

$$\textcircled{3} \quad f(x) = \ln \left| \frac{x+5}{1-x} \right|$$

$$\frac{x+5}{1-x} > 0$$

$$1-x \neq 0$$

$$-x \neq -1$$

$$x \neq 1$$

$$(x+5)(1-x) > 0$$

$$x - x^2 + 5 - 5x$$

$$-x^2 - 4x + 5 \quad | \cdot (-1)$$

$$x^2 + 4x - 5$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

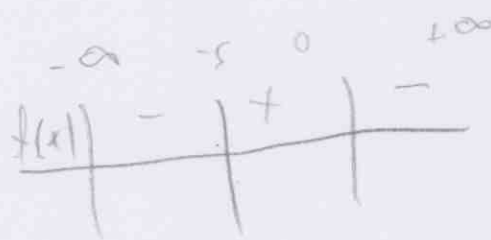
$$x_{1,2} = \frac{-4 \pm \sqrt{16 - 4 \cdot (-5)}}{2}$$

$$x_{1,2} = \frac{-4 \pm \sqrt{36}}{2}$$

$$x_{1,2} = \frac{-4 \pm 6}{2}$$

$$x_1 = -5$$

$$x_2 = 1$$



$$D(f) = [-5, 1] \cup \{1\} \quad \text{X}$$

$$D(A) = (-5, 1)$$

$f(-5)$ NE POSTOJI.

KOJE SU SVE

ASIMPOTE OVE

FUNKCIJE?

IME I PREZIME:

MATE IVIĆ

BROJ INDEKSA:

PRAVA DERIVACIJA

$$y(x) = \cos(\sin(3x))$$

$$(3x)' = 3$$

$$y'(x) = \cos(\sin(3)) \quad \times$$

NAUČITI DERIVACIJU KOMPOZICIJE FUNKCIJA.

VIDI LALIĆ