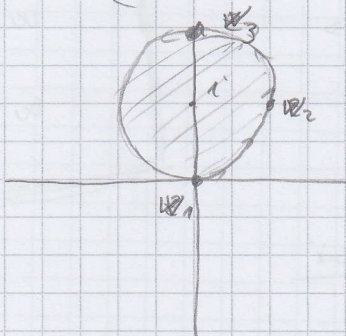
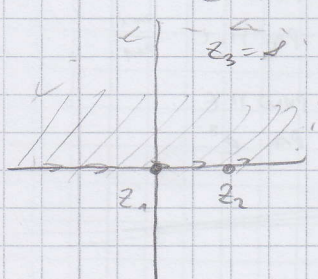




BURIC

OVO JE TAPIR MAŠKINBAO

ZAD) $G = \{ \operatorname{Im} z = 0 \} \cup G^* = \{ |z-i| < 1 \}$



84 STR FORMULE -> 4 SLUCAJA



ODABIRU SE TOČKE NA GRANICI PODRUČJA (PAZI I NA SMJER ODABIRTA TOČAKA)

$$z_1 = 0, z_2 = 1, z_3 = i$$

$$w_1 = 0, w_2 = 1+i, w_3 = 2i$$

M.t. $S(z) = w_3 \frac{z+z_1}{z+z_2} = 2i \frac{z+0}{z+1}$

1. TOČKA $0 = 2i \frac{0+0}{0+1} \Rightarrow 0 = 0$

$$w = S(z) = 2i \frac{z}{z+1}$$

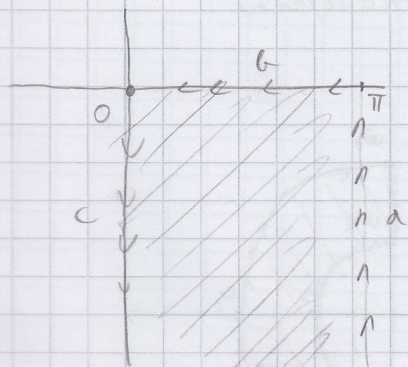
2. TOČKA $1+i = 2i \frac{1}{1+1} \Rightarrow 1+i = i \Rightarrow 1 = 0$

$$W = S(z) = 2i \frac{z}{z+i} \quad 4.$$

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14.5) $G = \{ 0 < x < \pi, y < 0 \}$ TAD $w = \cos z$

NJE M.E. (NE MOŽ. PRAVO TOČAKA)



a: $x = \pi, y \in (-\infty, 0)$

$$w = \cos(x+iy) = \cos x \cosh y - \sin x \sinh y = \cosh y$$

UVRSTI π

a: $w = -\cosh y$

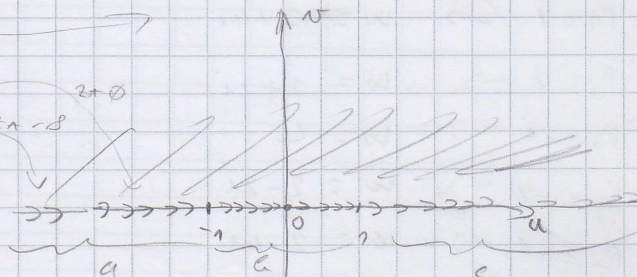
c: $x=0, y \in (-\infty, 0)$

$$w = \cosh y$$

b: $y=0, x \in (0, \pi)$

$$w = \cos x \rightarrow \text{gde } y=0$$

$$\text{od } \pi \text{ do } 0 \text{ (od } \cos)$$



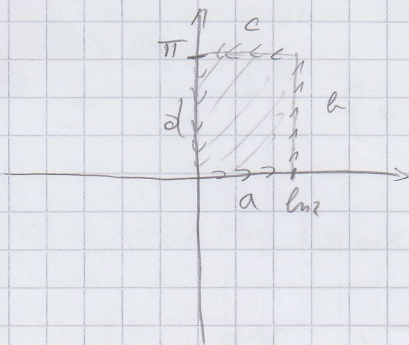
1.11.2008

7.)

SLIC. SLIKU POOR

$$G = \{ 0 < x < \ln 2, 0 < y < \pi \}$$

$$w(z) = \frac{2e^z + 4i}{e^z}$$



$$w = \ln \left(\frac{z+i}{z-i} \right)$$

PRVO M.T
PA \ln

$$w = \frac{\ln z + i}{\ln z - i}$$

PRVO \ln
PA M.T $\frac{p+i}{p-i}$

$$w = e^{\frac{z+i}{z-i}}$$

PRVO M.T
PA e^z

$$p = e^z \Rightarrow w = \frac{2p + 4i}{p}$$

PRVO SA $p = e^z$

$$p = e^z = e^{x+iy} = e^x \cdot e^{iy} = r e^{i\varphi}, \quad r = e^x, \quad \varphi = y$$

SEGMENTI

a: $x \in (0, \ln 2), y = 0$

$$\varphi = 0, \quad r \in (1, 2)$$

b: $x = \ln 2, y \in (0, \pi)$

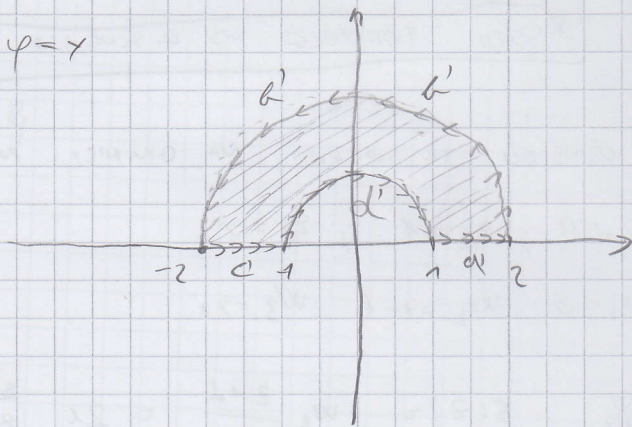
$$r = 2, \quad \varphi \in (0, \pi)$$

c: $y = \pi, x \in (0, \ln 2)$

$$\varphi = \pi, \quad r \in (0, 2)$$

d: $x = 0, y \in (0, \pi)$

$$\varphi \in (\pi, 0), \quad r = 1$$



SAD JOS PRESLIKATI SA

$$\frac{2p + 4i}{p}$$

c, d JO ISTI PRAVAC STOGA NIJE POTREBNO OBA PRESLIKATI

$$w = \frac{2p + 4i}{p}$$

$p_1 = 1 \rightarrow w = 2 + 4i$

$p_2 = 2 \rightarrow w = 2 + 2i$

$p_3 = 2i \rightarrow w = 4$

$p_4 = -2 \rightarrow w = 2 - 2i$

$p_5 = -1 \rightarrow w = 2 - 4i$

$p_6 = 1 \rightarrow w = 6$

