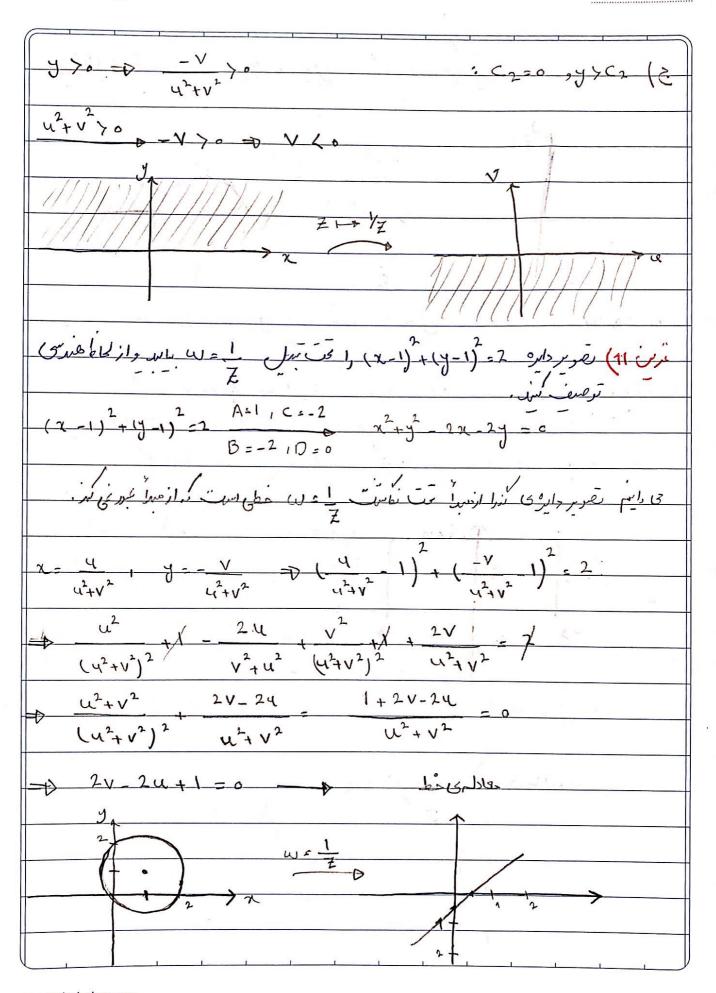
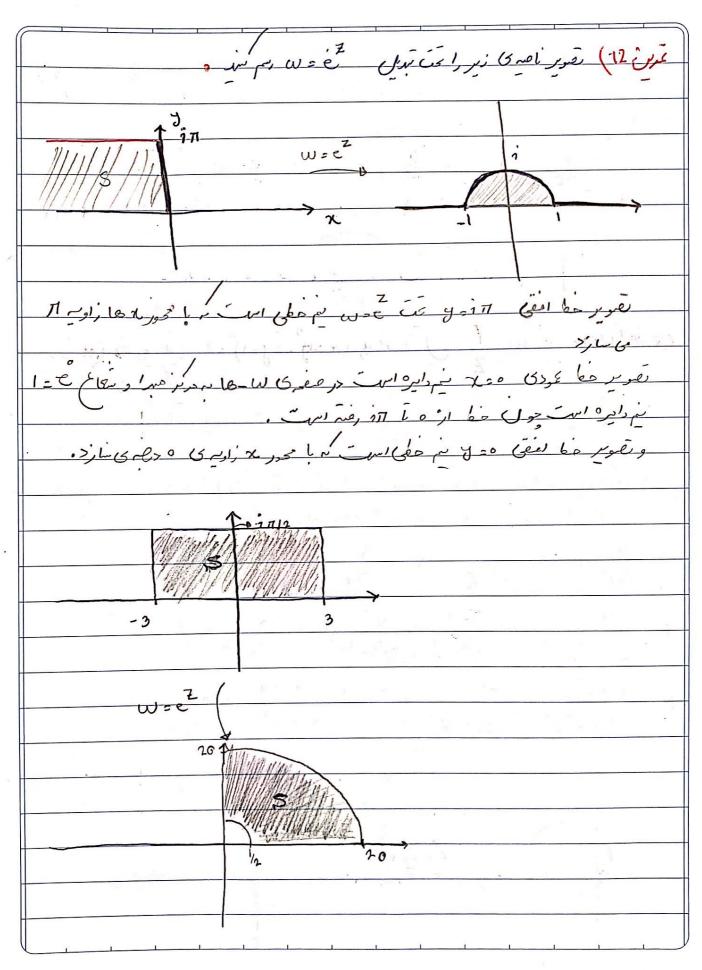
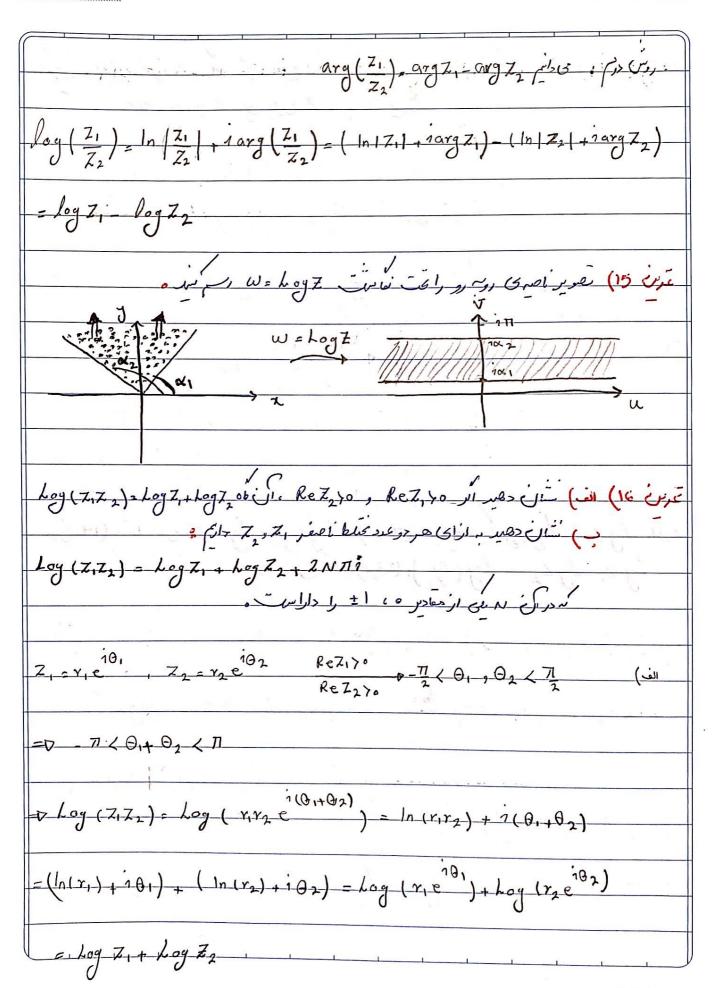
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bū, 1 b > (x + it) a , be je (; jul il b i 6 8 x x 23 is ;
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(3) $\frac{1}{2}$	
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1) $\frac{1}{\sqrt{1620}} = \frac{2}{\sqrt{1620}} = \frac{2}{16$	9. 11(5 2 Pa x 7 (6) (N) 5 P 1/4 (P) 3
$\frac{e^{\frac{1}{2}}}{2} = \frac{e^{\frac{1}{2}}}{2} = e^$	
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$\frac{e^{\frac{1}{2}}}{2} = \frac{e^{\frac{1}{2}}}{2} = e^$	= excosy, 1 cx Siny = ox Siny = o
2) $= \frac{1}{2} \cdot \frac{1}{2} \cdot$	4
2) $= \frac{1}{2} \cdot \frac{1}{2} \cdot$	e to Siny = 0 = J = KH = V IMZ=KA
$\frac{e^{\chi}}{\sqrt{2}} = \frac{(2\kappa+1)\pi}{2}$ $Im Z = \frac{(2\kappa+1)\pi}{2}, \kappa \in \mathbb{Z}$ $\frac{\log Z}{\sqrt{2}} = \frac{\log \left(\frac{1}{Z}\right) \log \left(\frac{1}{Z}\right) - \log Z \log \left(\frac{1}{Z}\right) - \log Z \log \left(\frac{1}{Z}\right) - \log Z \log \left(\frac{1}{Z}\right) - \log \left(\frac{1}{Z}\right) \log \left(\frac{1}{Z}\right) - \log \left(\frac{1}{Z}\right) \log \left(\frac{1}{Z}\right) - \log$	
$\frac{e^{\frac{\chi}{2}}}{Im Z} = \frac{(2K+1)\pi}{2}$ $Im Z = \frac{(2K+1)\pi}{2}$ $\frac{2}{Im Z} = \frac{(2K+1)\pi}{2}$ $\frac{2}{Im Z} = \frac{(2K+1)\pi}{2}$ $\frac{2}{Im Z} = \frac{\log(\frac{1}{Z}) - \log(\frac{1}{Z})}{2} = \frac{\log(\frac{1}{Z}) - \log(\frac{1}{Z}) - \log(\frac{1}{Z})}{2} = \frac{\log(\frac{1}{Z}) - \log(\frac{1}{Z})}{2} = \frac{\log(\frac{1}{Z})}{2} = \frac{\log(\frac{1}{Z}$	2) Tulispare: E e cosy isinger cosy = o
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Log $(\frac{1}{Z})$ = $\log (\frac{1}{2})$ = $\log (\frac{1}{Z})$ = $\log (\frac{1}{Z}$	e >0 Cosy =0 =D y = (2K+1)TI
Log $(\frac{1}{Z})$ = $\log (\frac{1}{2})$ = $\log (\frac{1}{Z})$ = $\log (\frac{1}{Z}$	- IMZ = (2K+1) TI , KEZ
$\log\left(\frac{1}{Z}\right) = \log\left(\frac{1}{Y}e^{-i\theta}\right) = \ln\left(\frac{1}{Y}\right) + i\left(-\theta + 2K\Pi\right)$ $= -\ln(x) - i\left(\theta - 2K\Pi\right) = -\left(\ln(x) + i\left(\theta - 2K\Pi\right) = -\log Z\right)$ $= \log\left(\frac{Z_1}{Z_2}\right) = \log\left(\frac{Z_1}{Z_2}\right$	A service of the serv
$\log\left(\frac{1}{Z}\right) = \log\left(\frac{1}{Y}e^{-i\theta}\right) = \ln\left(\frac{1}{Y}\right) + i\left(-\theta + 2K\Pi\right)$ $= -\ln(x) - i\left(\theta - 2K\Pi\right) = -\left(\ln(x) + i\left(\theta - 2K\Pi\right) = -\log Z\right)$ $= \log\left(\frac{Z_1}{Z_2}\right) = \log\left(\frac{Z_1}{Z_2}\right$	(3/12 log Z , loy (1) ~ (Z to) log (1) = log z uls cjin [m] (14 cri
$= -\ln(r) - i(\theta - 2\kappa\pi) = -(\ln(r) + i(\theta - 2\kappa\pi)) = -\log Z$ $= -\ln(r) - i(\theta - 2\kappa\pi) = -(\ln(r) + i(\theta - 2\kappa\pi)) = -\log Z$ $= -\ln(r) - i(\theta - 2\kappa\pi) = -(\ln(r) + i(\theta - 2\kappa\pi)) = -\log Z$ $= -\log(Z_1Z_2) - \log(Z_1 + \log Z_1 + \log(Z_2)) - \log(Z_1 + \log Z_2)$ $= -\log(Z_1Z_2) - \log(Z_1 + \log(Z_1 + \log(Z_2))) - \log(Z_1 + \log(Z_2))$	log Z1 - log Z = log (Z1) (Z1,Z2+0) we> Cities on injusted & w
log(Z1) = log(Z1-1) = log Z1 + log(1) Log(Z1) = log(Z1-1) = log Z1 + log(1) Log(Z1) = log(Z1-1) = lo	$\log\left(\frac{1}{Z}\right) = \log\left(\frac{1}{\gamma}e^{-i\theta}\right) = \ln\left(\frac{1}{\gamma}\right) + i\left(-\theta + 2K\Pi\right) $ (i)
$log\left(\frac{Z_1}{Z_2}\right) = log\left(Z_1 - \frac{1}{Z_2}\right) = log\left(\frac{Z_1}{Z_2}\right)$	$= -\ln(r) - 1(\theta - 2k\pi) = -(\ln(r) + 2(\theta - 2k\pi)) = -\log \pi$
log (1/2) =- log 72 log (Z1) = log (Z2)	$\log\left(\frac{Z_1}{Z_2}\right) = \log\left(Z_1 - \frac{1}{Z_2}\right) = \log\left(Z_1 + \log\left(\frac{1}{Z_2}\right)\right)$
	loy (\frac{1}{Z_1}) = -log \frac{7}{Z_2} log (\frac{7}{Z_2}) = log \frac{7}{Z_2} log (\frac{7}{Z_2})



(Z172) = Arg Z1+ Arg Z2+2N -11 (Arg Z, + Arg Z2 LT Argz, + Arg Z2 > 7 0+2(Pn+k)#

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$\frac{1}{z^{c}} = \frac{z^{c}}{z^{c}} \qquad (z^{c})^{n} = z^{cn} \qquad (z^{c})^{n} = z^{cn} \qquad (z^{c})^{n} = z^{c} \qquad (z^{c})^$
$\frac{\text{idl}}{Z^{\text{C}}} = \frac{1}{\text{clog}Z} = \frac{1}{\text{clnrio}} = \frac{1}{\text{clnr}} = \frac{1}{\text{cio}}$ $= \frac{-\text{C}}{-\text{cio}} = \frac{1}{\text{cross}} = \frac{1}{\text{clnrio}} = \frac{1}{\text{clnr}} = \frac{1}{\text{cio}}$ $= \frac{-\text{C}}{-\text{cio}} = \frac{1}{\text{cross}} = \frac{1}{\text{clnrio}} = \frac{1}{\text{clnr}} = \frac{1}{\text{cio}}$ $= \frac{-\text{C}}{-\text{cio}} = \frac{1}{\text{cross}} = \frac{1}{\text{clnrio}} = \frac{1}{\text{clnrio}} = \frac{1}{\text{clnrio}} = \frac{1}{\text{cio}}$
$\frac{1}{2} \left(\frac{z^{2}}{z^{2}} \right)^{n} = \left(\frac{c \log z}{z} \right)^{n} = \frac{c n \cdot \log z}{z} \cdot \frac{c n}{z}$
E) ZZ = Elogz d.Logz (c+d)hogz c+d
>) z e chogz chogz (c-d)Logz c-d Z d edhogz
عَدِينِ ١٤) نَقُويرِ فَاصِهِ رُبِرِ وَتَ لَهَاسِ مَا يَكِ اللهِ عَدِينِ اللهِ عَدِينِ اللهِ عَدِينِ اللهِ عَدِين عَدِينِ ١٤) نَقُويرِ فَاصِهِ رُبِرِ وَتَ لَهَاسِ مَا يَكِ اللهِ عَدِينِ اللهِ عَدِينَ اللهِ عَدِينَ اللهِ عَدِي
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عرب نامیم مطلی را عت تسملی Sin Z و ان بروس اوراد .
ws Sin Z
$-\eta_{12}$ η_{12} η_{12} η_{12} η_{12}
غرس 21 کورا های معادله ی CosZ - 3 را به دست اوراد ه
Cos Z = 3 = Cosx cooky isinz sinky = 3
Cosy Coshy = 3
Sinx Sinhy = 0 Sinx=0 L Sinhy=0
if sinhy = 0 = y = 0 = Coshy = 1 = D Cos x = 3 = D > hi-12-ble
if Sinks => X=TKT
x=-KM cosx==1=7 coshy==3 coshy>0 > Jun-1, splices
ZEKT COSX =1 -D Coshy = 3 -> y = Cosh (3)
Z= KH + Cosh (3) KEZ
عربن (عن سا ج الحرب الق الم الم العاسم سا الع
f(Z,)=f(Z)=2f(Z)=e=i= Z,1Z2+0 (5).
$\frac{1}{3}$ $\frac{1}$
$= \frac{\cos \frac{\pi}{6} - i \sin \frac{\pi}{6}}{6} = \frac{\sqrt{3}}{2} = \frac{i}{2}$

