

Course

Progress

<u>Dates</u>

Discussion

Wiki

1	N C /	4 Almah			Internation					/ Evenies
1	Course /	T. Algeb	ra or complex	(numbers.	integration	and dir	erentiation	of functions o	f complex variables.	/ Exercises

Previous					ď	ď		Ne	
oblem 1.	.6								
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Problem	1.6								
0.0/4.0 points		a /							
find all hari	monic functior neral form of s	ns $f\left(z=x+ ight)$ such $f\left(z ight)$ with	$-\imath y)=u\left(x, ight)$ n two arbitrary	$y)+iv\left(x,y ight)$, constants a (satisfying the complex) and	requirements b (real) ($f\left(z ight)$	s below. You no should be zero	eed to o at	
a = b = 0 logarithmic). Use i for con	nplex unity, so	ျrt(#) for $\sqrt{\#}$, #^2 for $\#^2$, e	e^(#) for the ex	xponential fun	ction and ln(#)	for	
1) $u=arphi\left(x\right)$	(x^2-y^2)								
$f\left(z ight) =% {\displaystyle\int\limits_{z}^{z}} {\int\limits_{z}^{z}} $									
2) $u=arphi\left(rac{3}{a} ight)$	$\left(\frac{I}{c}\right)$								
•									
f(z) =									
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Topic: Week 1	Problem 1.6								
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? <u>Problem 1.6 Part 2)</u>							4		
r Proble								*	
? Where	is Problem 5?			l 4. Problem 5 wher				2	