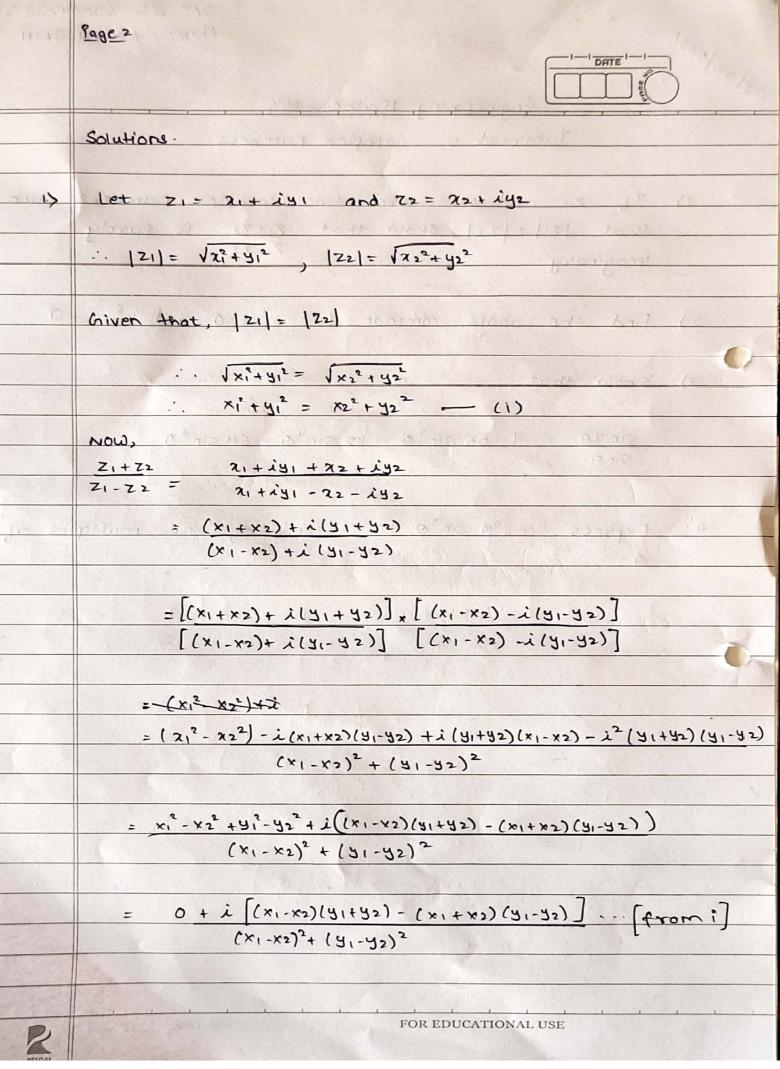
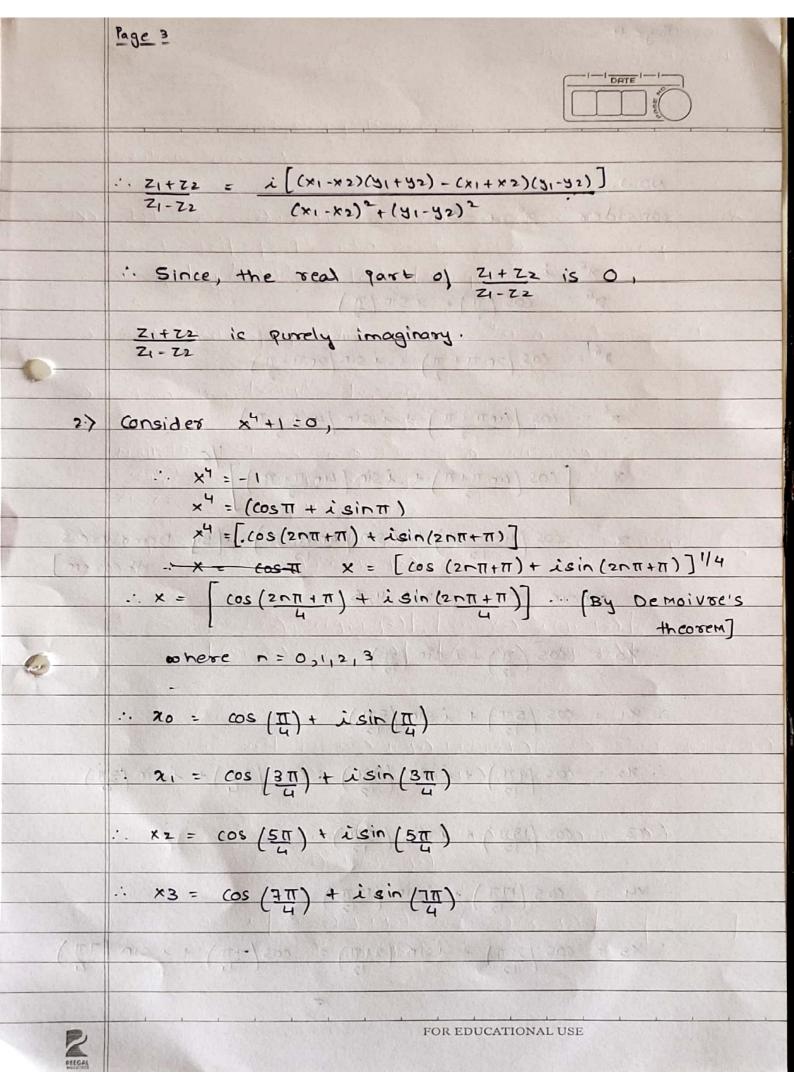
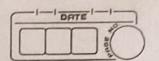
	SAP ID-60004200132
21	Name - AYUSH JAIN
3/20.	
08/03/2021	
	Engineering Mathematics
	Tutorial 2: complex numbers.
15	If z, and zz are two complex numbers such
	that  z1 =  z2 , show that z1+z2 is purely
	imaginary.
	magina 4.
	T. 1
2·>	Find the roots common to x"+1=0 and x=-i=0
-	
3>	show that
	sin70 = 7-56 sin20 + 112 sin40 - 64 sin60
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4>	Express costo sino in terms of sine multiples of
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	[ ( see see) + ( see - 1 see ) [ ( see also sees - 1 see ) ]
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2	FOR EDUCATIONAL USE
MARILL	







NOW,

$$2^6 = \cos(2n\pi + \pi) + i\sin(2n\pi + \pi)$$

$$\chi^{c} = \cos\left(4\pi\pi + \pi\right) + i\sin\left(4\pi\pi + \pi\right)$$

$$\pi = \left[\cos\left(\frac{un\pi+\pi}{2}\right) + i\sin\left(\frac{un\pi+\pi}{2}\right)\right]^{1/6}$$

$$\therefore \chi = \cos\left(\frac{4\pi\pi + \pi}{12}\right) + i\sin\left(\frac{4\pi\pi + \pi}{12}\right) \cdot \cdot \cdot \left(\frac{By}{Demoivsels}\right)$$
theorem

$$\therefore \alpha_1 = \cos\left(\frac{5\pi}{12}\right) + i\sin\left(\frac{5\pi}{12}\right)$$

$$\therefore x3 = \cos(\frac{13\pi}{12}) + i \sin(\frac{13\pi}{12})$$

: 
$$x_5 = \cos(\frac{21\pi}{12}) + i\sin(\frac{21\pi}{12}) = \cos(\frac{7\pi}{4}) + i\sin(\frac{7\pi}{4})$$

