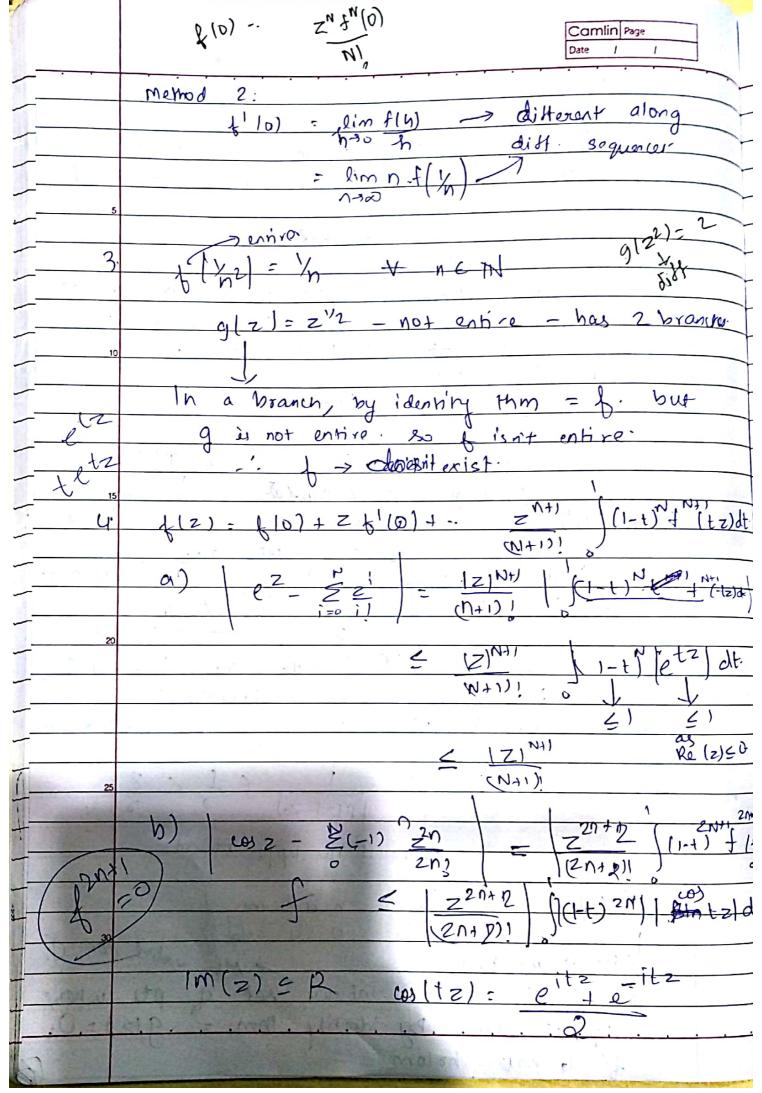
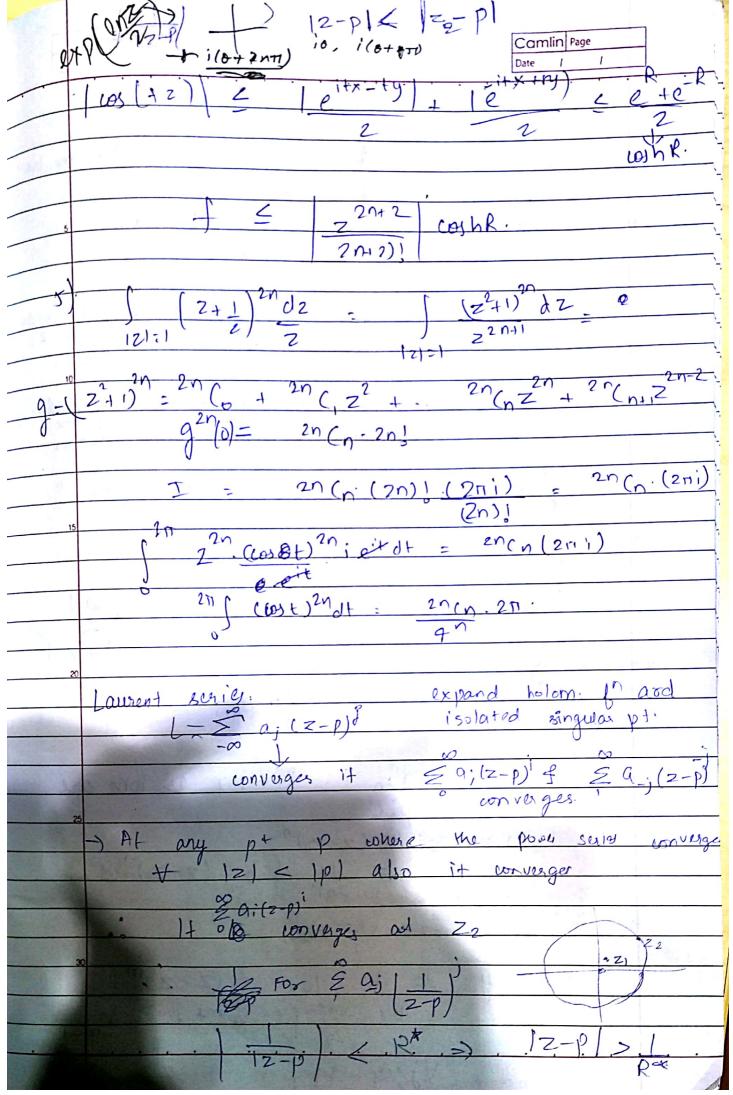
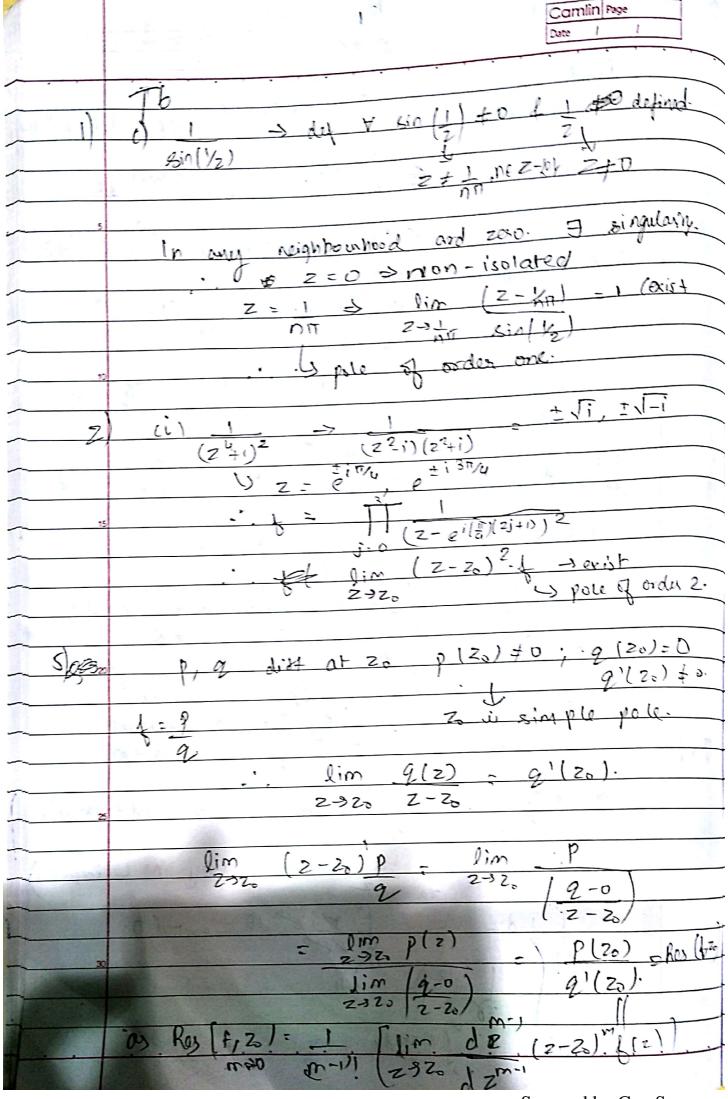


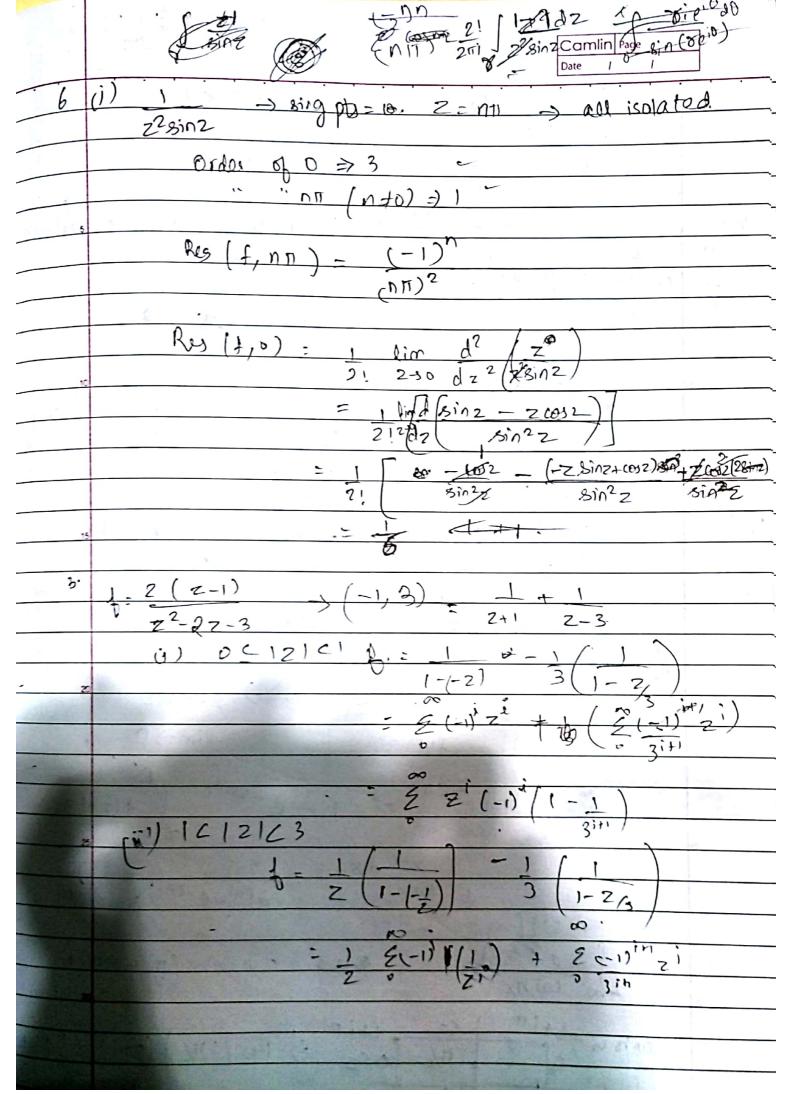
Scanned by CamScanner



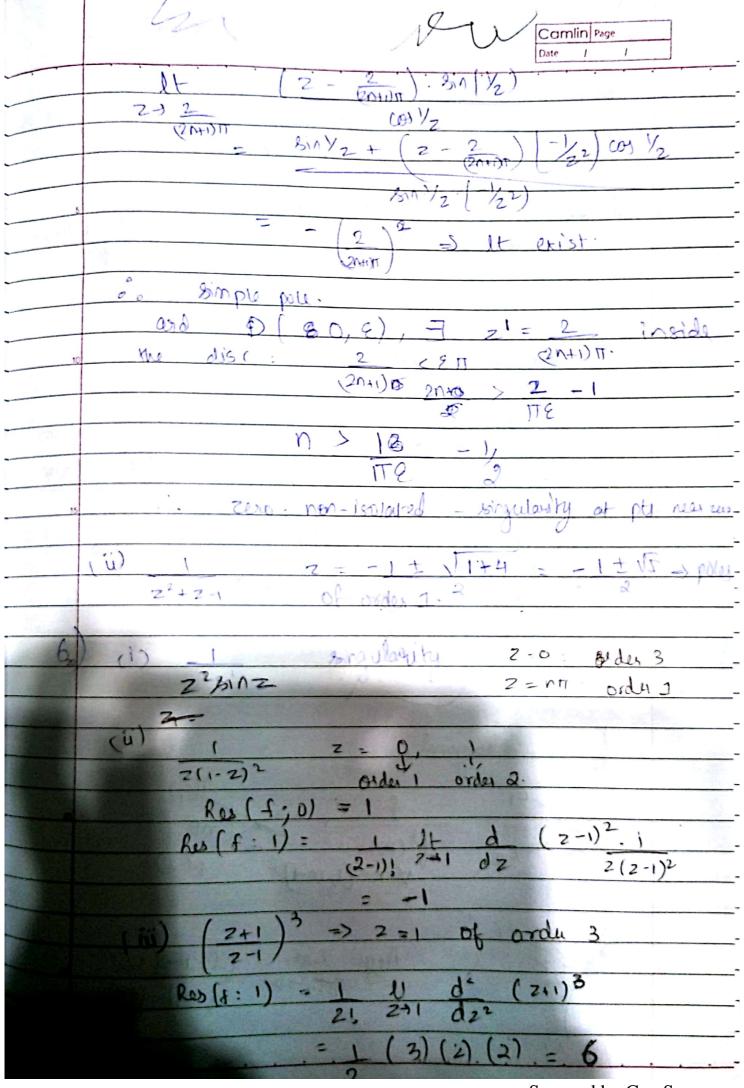




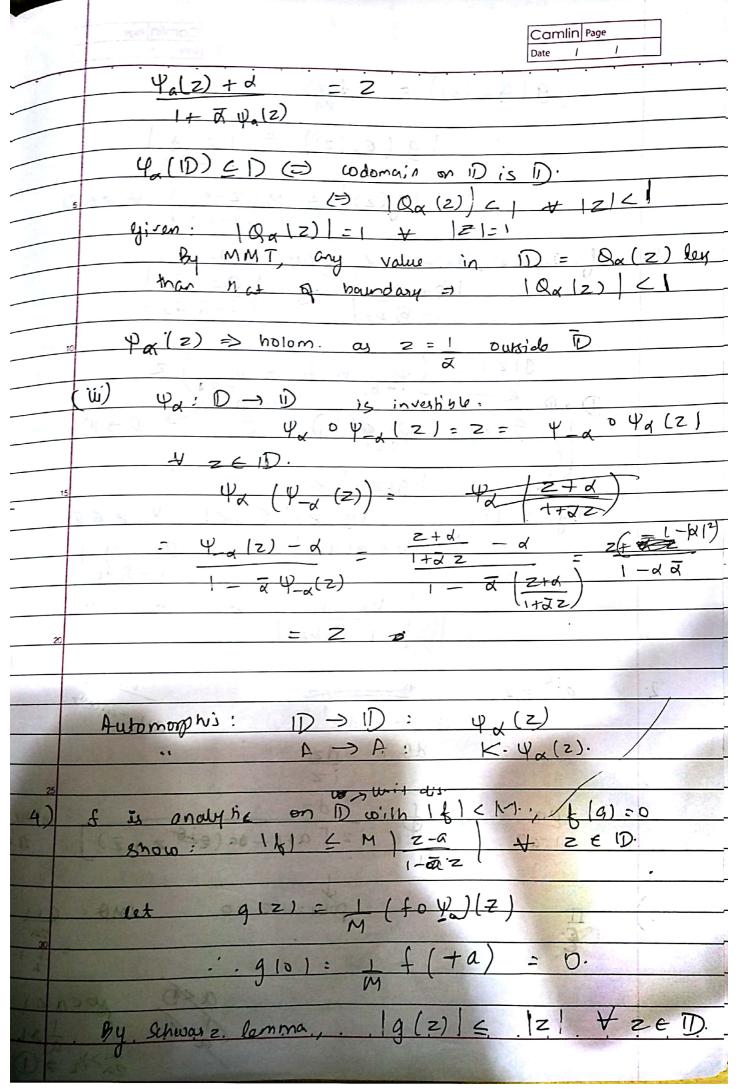
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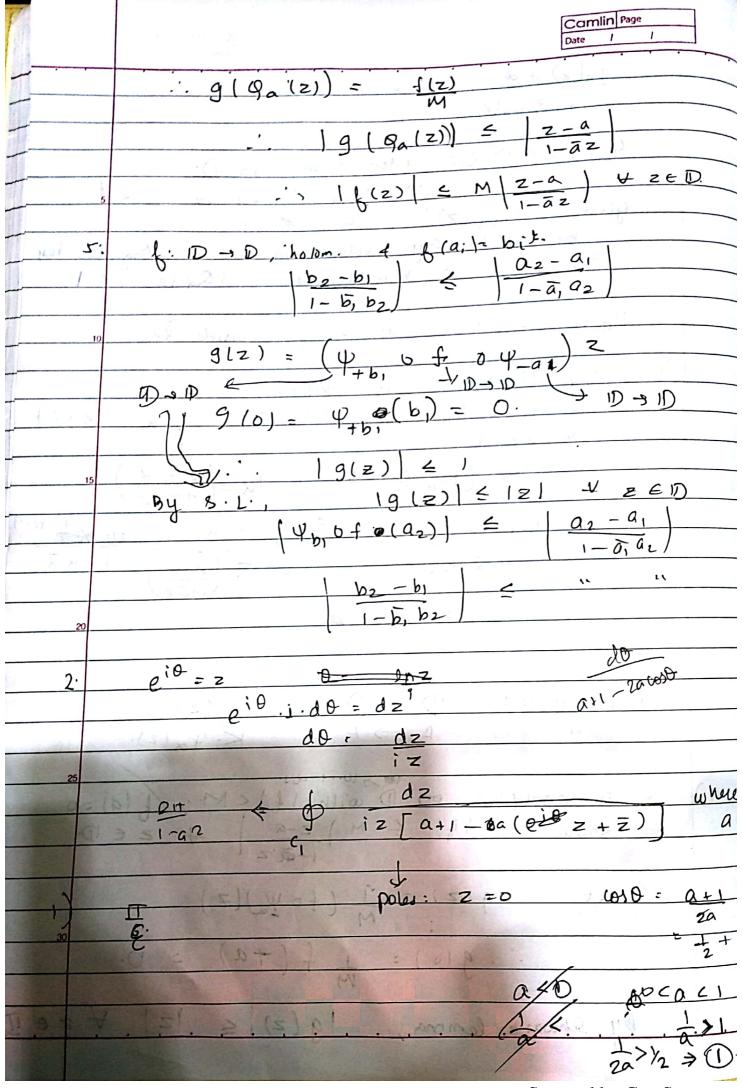


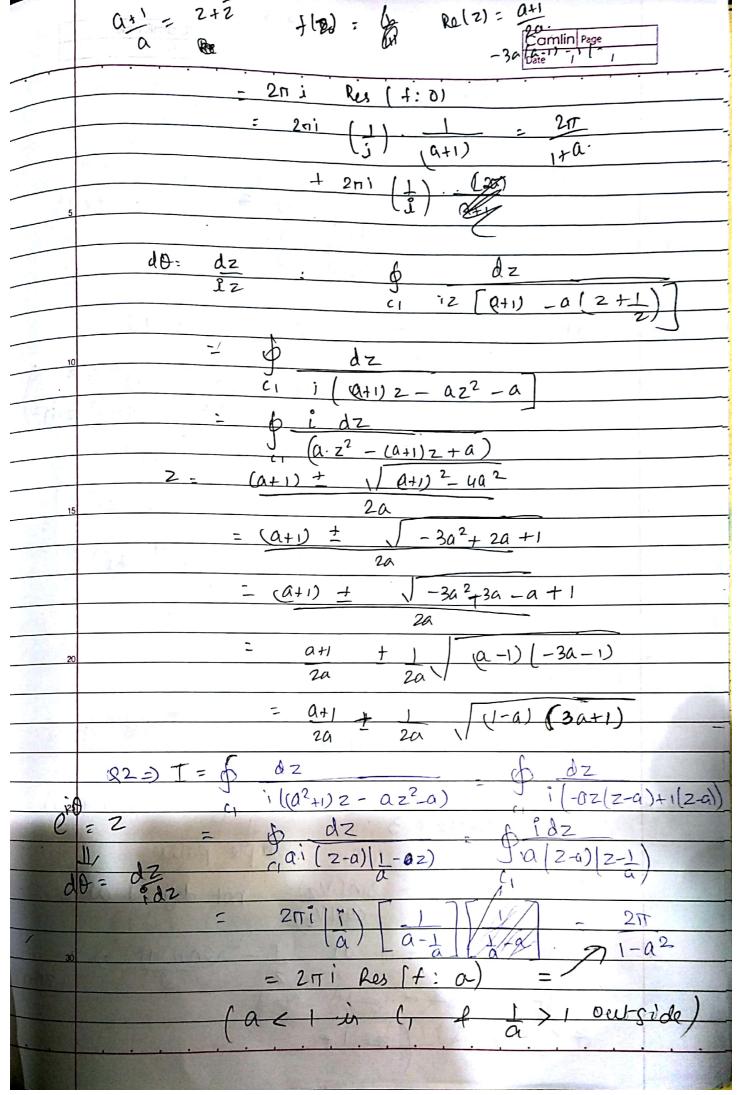
	(1 7-6)	
-	<u>a)</u>	Sin(1) -> essential.
		(2)
25	(V)	$\frac{Z^2 + Z + 1}{Z^3 - 11Z + 13} = \frac{1}{2} 1$
		Z3-11z+13
		Simple poles.
	(9)	tan (Yz) = sin (Yz) not defined at z=0.
		cos (Vz)
30		cos (\bot) = 0 at $(-2n+i)$ ft $\Rightarrow z=2$
		2 2 (2N+1)/n
	Xt	2 - 2 Sint
	27	2 CREST OF THE PROPERTY OF THE
	- CA	
distance of the		



Big Pic: if zo is assential sing. q 112). Then, in any punchased neight of zo -> allowed to miss atmost Picard's thms one pt. of form e f(2) + c for some entire for \$ (2) Tw 7. 3) (1) = (2-a) (Z - a) (1-az) (1-az) (D) CD. Ψa(z) - ~ ψa(z)·z = z-x







-192413 [Camlin Page]
(Bi) Cosx dx
11-0 (1+x2)2
$\int \frac{e^{i7} dz}{(1+z^2)^2} e^{iz} \int \frac{e^{i2} dz}{(1+z^2)^2} dz = \int \frac{e^{i2} dz}{(1+z^2)^2}$
B(R (1-121)20
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
LHS: (0'Zd z = 211 j. ROA (f. i).
$\frac{z^{-1}}{(z-1)^{2}} = \frac{z^{-1}}{(z-1)^{2}} = \frac{z^{-1}}{(z-1)^{2}}$
$= 2\pi \tilde{s} \cdot Q + c \left(\frac{e^{iz}}{z_1 \tilde{s}}\right)^2$
Z 9 i d 2 (Z + 1) 2/
$= 2\pi i ie^{2}(z+i)^{2} - o^{i2}(2)(z+i)$ (2+i) 4
= 2ni se (4-)(-1) - e (4i)
= 2mi [-8e-1] = II
2mi -8e i - II.
1- a) sin(1) -> essential.
(Z)
$\frac{25}{23-112+13} = \frac{1000 \text{ M}}{23-112+13} = \frac{10000 \text{ M}}{23-112+13} = \frac{100000 \text{ M}}{23-112+13} = \frac{1000000 \text{ M}}{23-112+13} = \frac{100000 \text{ M}}{23-112+13} = 1000000000000000000$
Simple poles.
(d) $tan(Yz) = sin(Yz)$ not dogined at $z=0$.
l cne ()
$\frac{1}{2} = 0 \text{ at } 1 = 2n+1) \text{ ft } \Rightarrow z = \frac{2}{2}$
2 > 2 (- Optula) (8)) \
2nhor