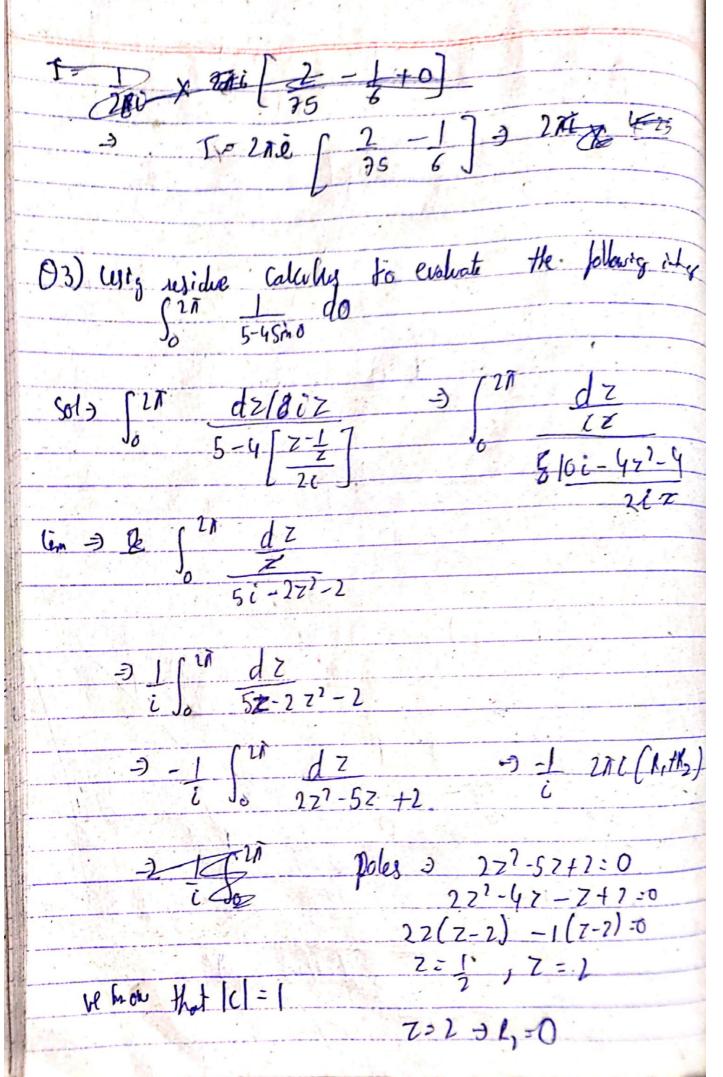
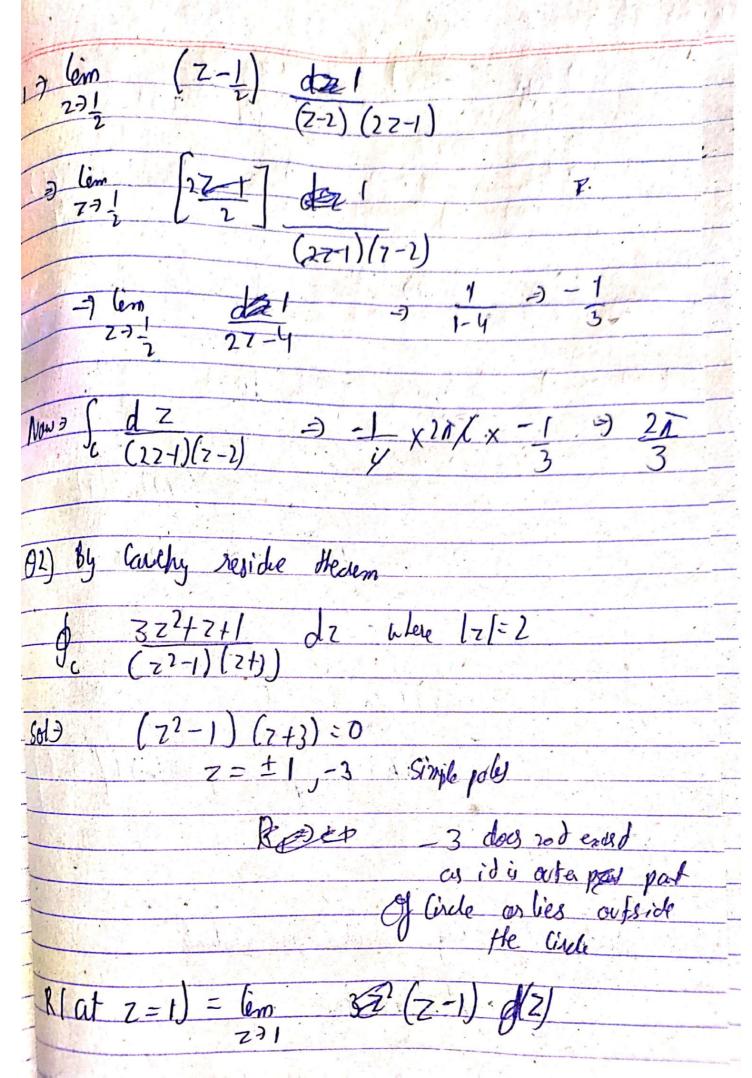
MS) ignment -2 Vivelstone Contour integration 5211 1 gy Evaluate the (cs0=1 2az+bz?+b b2-4ab

 $\frac{1}{bi}\int \frac{dz}{(z-d)} \left(\frac{1}{z-\beta}\right) = \frac{1}{bi} 2\pi i \left(R, +R_2\right)$ he know here IC)=1. . 6 les Oudside Re (z-d) No 71 Va2-62 06) Using Cauchy residue theorem to evaluate the (2+1)2(2244) c (2+1)2(2244) where Cis the Circle Ist Sold Poles = (2+1)2 = -84 1,1 Z2 +4 = 20,-20

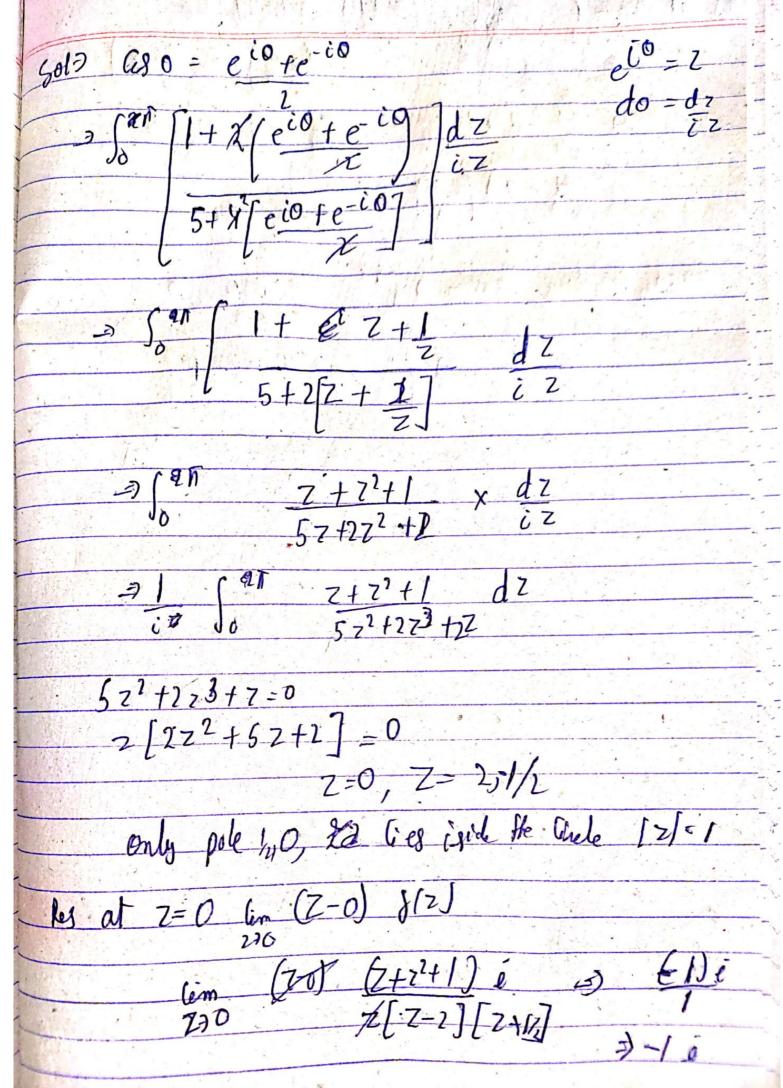
(2+1) (Z+2i) (Z-2c)  $\frac{3}{3!} \left[ \frac{d^{2} - 2z}{dz (z+2i)(z-2i)} \right]$  $27-2\left(z^{2}+4\right)-27\left(z^{2}-2z\right)$ 2-2(44)-2(1-2) - 10 +2 | -) lus(z=2i) = ((z-2i) x z)-2Z (z-2i)(7+2i) (z+1)2 [46] (2iti)2 las (2 = -2i) 7+11 × 22.22 (2-21)(2+28)(2+1)1

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(21) (322+2+1) (2 +3) (2+1)(2+1) (2+3) -) (im 221 (Z+1) f(Z) z lim R(at 2 = -1) 2) lim (281) (377+24.) 210 [ R, + R2] 77Aif 5i-31] = 2ni/ Apply Calus of reside to evaluate 1+2 GSO do



(211) (ZPZ2+1) é As at 2=- { Cousty Residues Hearen 2 (21)