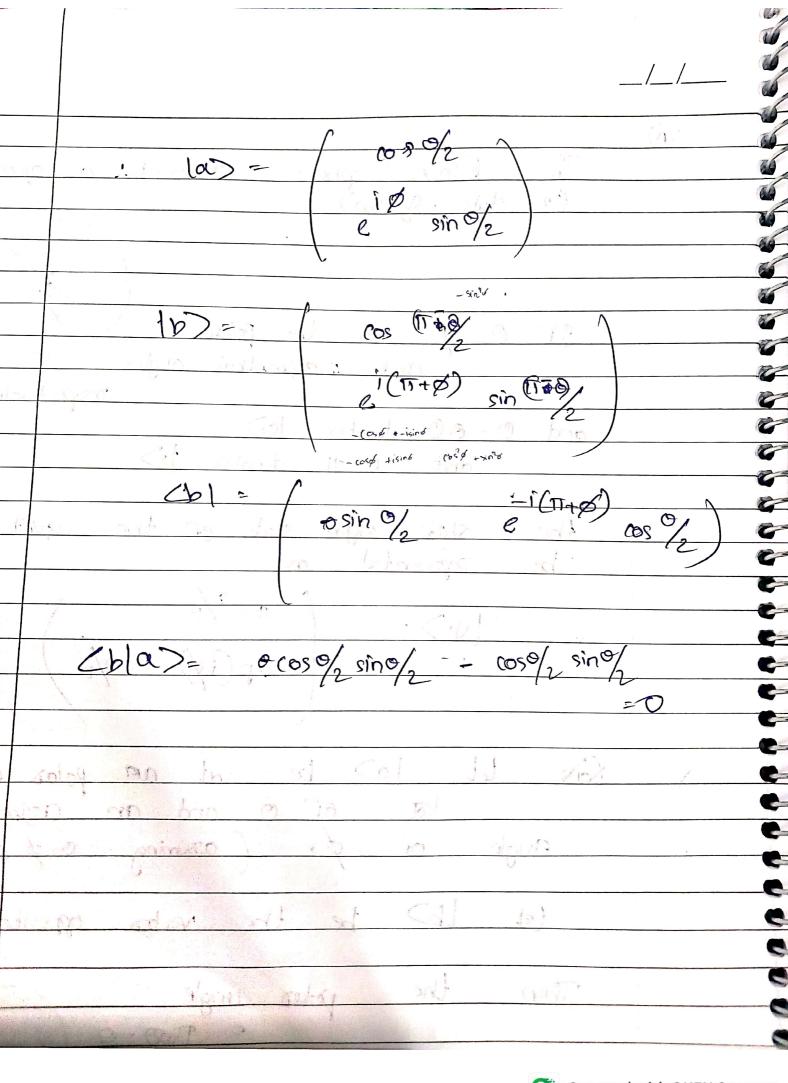
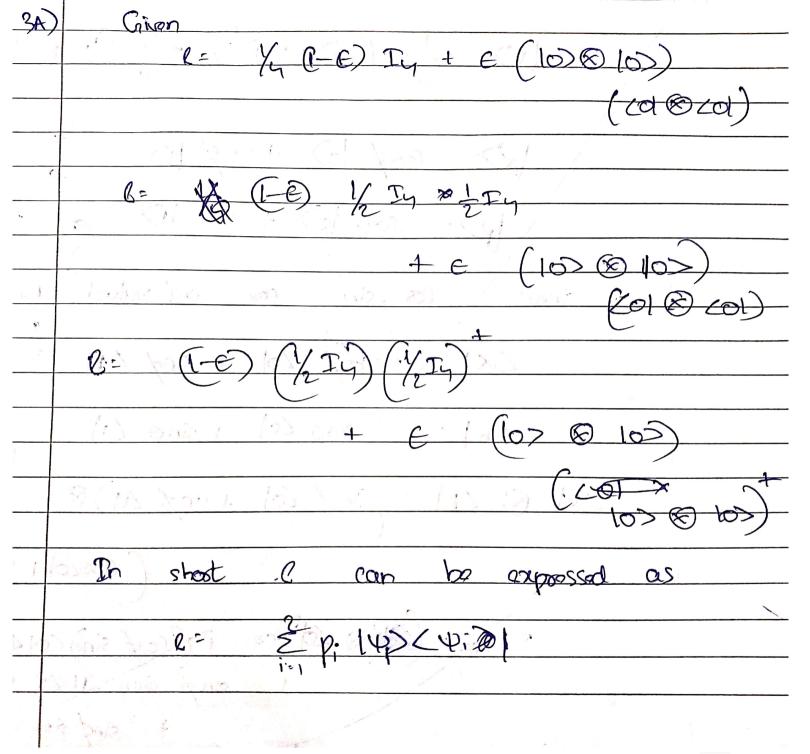


(AS The Bloch sphose orposents a qubit (2 state System) TF 0, of case the polar and azimuthal angles respectively 0 = 00 denotes (0) and 0=th denotes (1) the state aigni state of the qubit can be appasented as 65/2 = < 4 | oap (ix) sino/2 let (a) be at an polar angle angle of \$. ( assuming o, \$ < Th) LBD be the vector apposite to it. 1et the poles angle Then The -0 similarly azimithal ongle = 17+6





where

Also the touch of lie = 1 - - + = 1

Aprico l'expossents a density mortaix

Civon UA) (0) (8 (1)) Coxo (039 sino CO Sing (000 sino) ging 0050 cosof coso cos prino (B) (B) CX18 cospicoso cospino singimo 0 <del>-1/Si</del> 0

