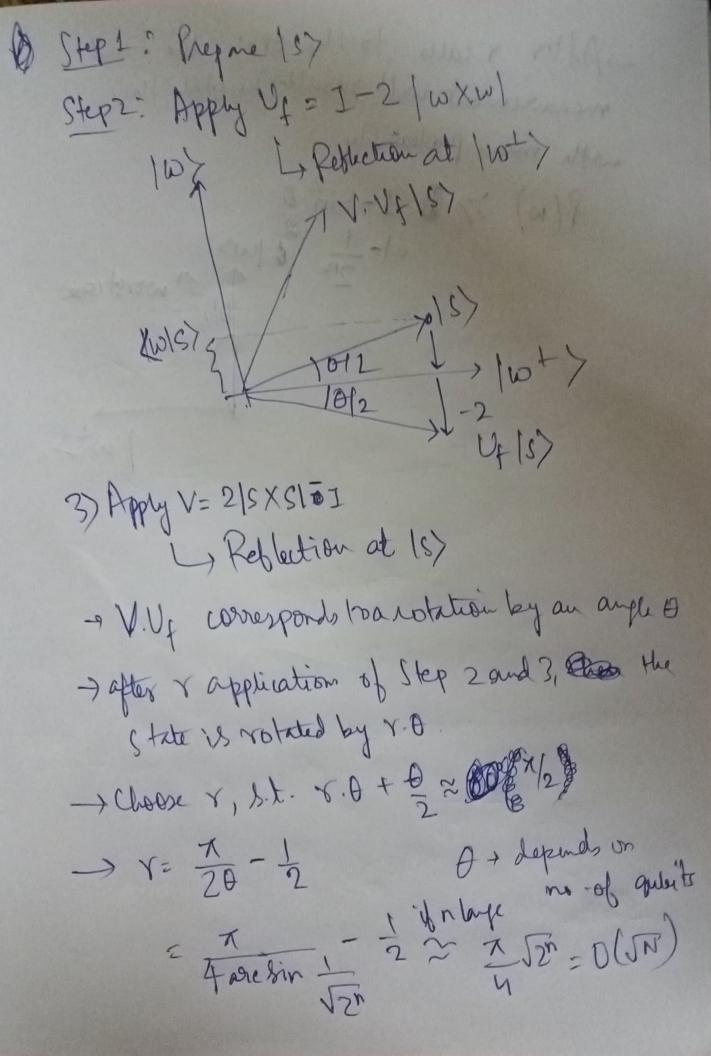


= 215×s1-I. Grovers Atgorithm cassies out the operation (N. y) on the state 15> Let & he plane spanned by 15) and (w) and let (w) he the state orthogonal to (w) in 2:  $\frac{1}{3} \frac{1}{5} = \frac{2^{2}i}{2^{n}} \frac{1}{10^{n}} + \frac{1}{\sqrt{2^{n}}} \frac{1}{10^{n}}$ =: con = [w+>+ sn = [w> define 8, Sin & = 1 + D= 2-arcsin Jan Z-plane Protocol: No7 p >157



-) After & calls to the orale, the final meanmement will growlt in state (w) with min probability. P(w) 7/ 1 1- sin 2 1w> 12/5×5/3 = 1 MAY 16

(2) to weitelded of