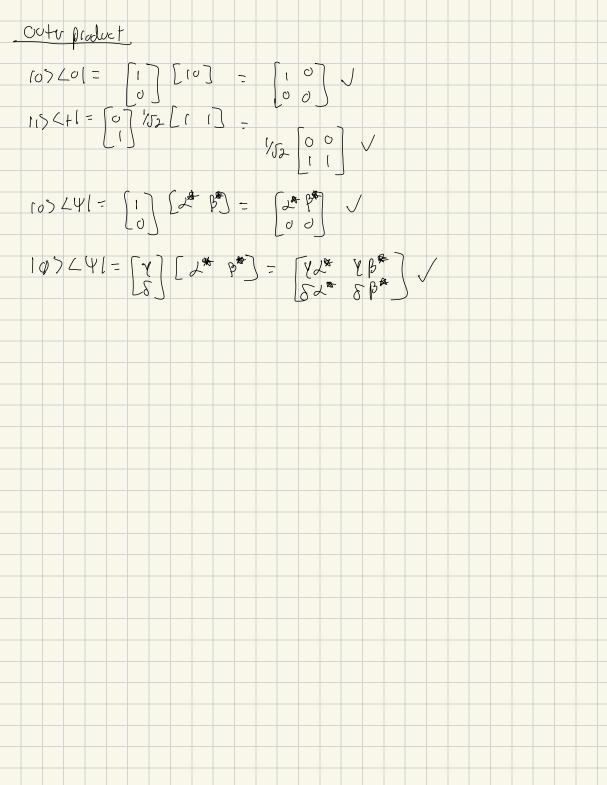
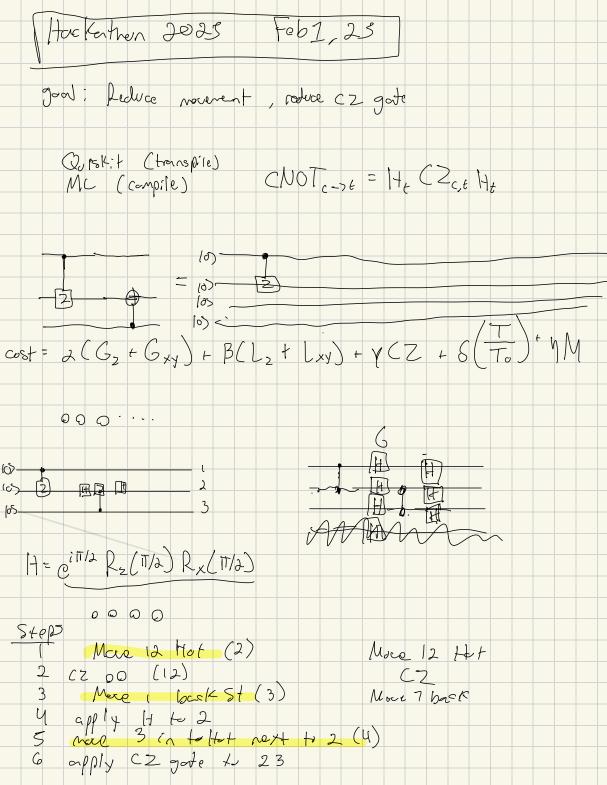
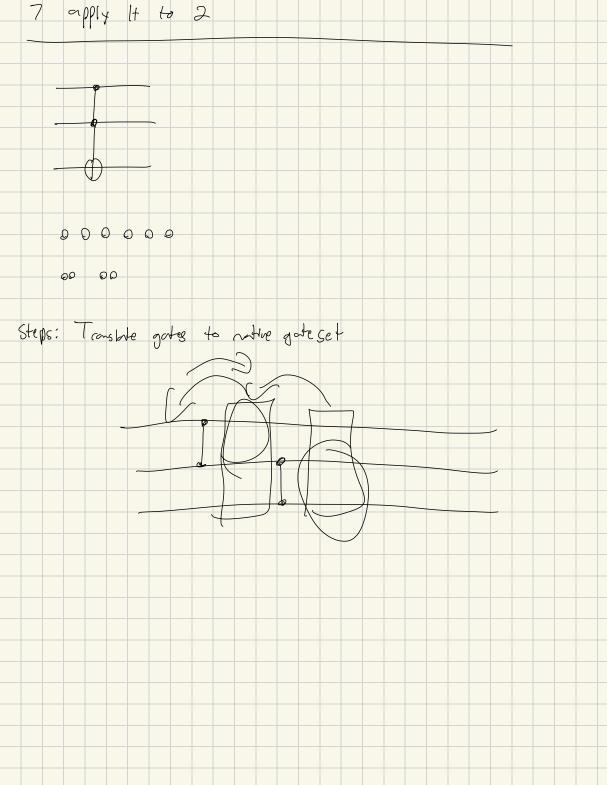
1/27/24 Super position lab Dirac Notation a.l) 10) (Normalized) V, (No (medized) 152107 + 15211) (Normalized) V a.3\ 1/5210) - 1/5211) (Normalized) V a, 4) c. 5) 360 + 7117  $3^{2}+7^{2} = 9+119 = 5/58 = 13/58 = 107 + 1/59 = 117$ a. 6) 2107 - 3117  $3^{2}+3^{2} = 59+9 = 5/7 = 117 = 1$ 6.1) 1+7 = 1/52 105 + 1/52 11) = 1/52 11 b.2) 1-7= 1/52 107 - 1/52 117 = 1/52 [:] 1/52(17+1-7) = 1/5 (17) + 1/52(107-117)) = 1/52 (1) + 1/2 (0) - 1/2 (1) = 1/2 (0) + (1/52 - 1/2) 117 = 1/2 - 1/2  $\frac{1}{50} \left( \frac{1}{100} + \frac{1}{100} \right) = \frac{1}{100} \left( \frac{1}{100} + \frac{1}{100} \right) + \frac{1}{100} \left( \frac{1}{100} + \frac{1}{100} \right) = \frac{1}{100} \left( \frac{1}{100} + \frac{1}{100} + \frac{1}{100} \right) = \frac{1}{100} \left( \frac{1}{100} + \frac{1}{100} + \frac{1}{100} \right) = \frac{1}{100} \left( \frac{1}{100} + \frac{1}{100} + \frac{1}{100} + \frac{1}{100} \right) = \frac{1}{100} \left( \frac{1}{100} + \frac{1}{100} +$ = 1/2 117 + 1/2 (0) - 1/2 117 Inne products (01+) = (01 1/52(10)+117)) = 1/52(2010) + 2011) = 1/52 L-1+> = 0 V LO (4)= 47 401 + 8 4 6 11 (210) + 811) = Y 2 LOID7 + 8 B CIII) V







Global Phase: π/8 62 662 ισΜ 7M q₀ — 10L 106 **6** q₁ − Styps Move (9, fa,) to hat (2neves) More 9, to storage (I muse) 2 3 More 90 to Hot Crext to 92) (I more) Apply Lex to 92 (1CZ) 4 (IL) More 9, to hot, next to 92 (IM) 8 Apply C2 CCZ)
Apply LP2 LPy 91 and CPx9, C3L) 9 0 Marce of to stor (Ins ſ¢ CIMS More do to Het 12 ((2) C2 13 More que to star [4) Mace q, to hot (6) Apply CZ App LAX of ent other

