

- variational method: $\frac{14}{2} = \frac{14(0,0)}{2} = \cos \frac{1}{2} (0) + \sin \frac{1}{2} (0)$ 7 (E) = <+ (O) P) (+100) $= E(\theta, \phi)$ $\pm im \theta, \phi = \pm (\theta, \phi)$ $\pm im \theta, \phi = \pm i (\theta, \phi) \text{ (e.c. tien. (20))}$ - Ground state $|\Psi\rangle = \frac{2^{n}}{2^n} \frac{2^n}{bien} \alpha_i$ i=0 i+12 parameters 14) Qe 14) 2 -2 parameters IIIXIL =1

$$|\Psi\rangle = \sum_{r=0}^{2^{n}-1} di |i\rangle$$

$$|\Psi\rangle = 2 \text{ qubit: } |00\rangle, |00\rangle, |10\rangle, |10\rangle, |11\rangle.$$

$$|\Psi\rangle = d_0 |00\rangle + d_1 |00\rangle + d_2 |10\rangle$$

$$|\Psi\rangle = d_0 |00\rangle + d_1 |00\rangle + d_1 |10\rangle$$

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$$|\Psi\rangle = d_0 |00\rangle + d_1 |0$$

-il sint $U_3(\theta, \phi) =$ $-\sin\frac{1}{2}e^{i\phi}$ cos $\frac{1}{2}$ $9, 9_0$ 100 100 100 100 100 100 100 100147) C-U2) Costo 10), 10), + sinto e 0 x x 11) (650 + 10) + 14 + 10) ? 100) + 2 1 10) + 2 111) Coll3 (fr, 62) Cato 10) \times ($\cos \frac{1}{2} + b$) $+ \cos \frac{1}{2} e^{i\frac{\pi}{2}}$

May no na AMSaTZ
(4) = do (00) + (dg (01)
+2/10)+2/11
Bai tap:
D'un moi liers trê quis
Ho, O, OL fleo Xº
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preis mall (i) high tier.
Tham Was:
Quantum algorithms for beginners Chapter 17: (Cales find Coits
Chapter 17: (Cales find 6 to its
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+ x 2 1000) + x 3 1000 + r 1000

