$$\langle 7/1/2 \rangle = \left[\langle 0|(\frac{1}{2}) + \langle 1|(-\frac{1}{2})^{2}| \frac{1}{2}|0\rangle + \frac{1}{2}|1\rangle \right]$$

$$= -\frac{1}{2}$$

$$f = |V \times V| = \langle V| = [e^{-i\phi}\cos\theta \sin\theta]$$

$$[e^{-i\phi}\cos\theta \sin\theta] = [\cos^2\theta e^{-i\phi}\cos\theta \sin\theta]$$

$$[\sin\theta] = [\cos^2\theta \sin\theta] = [\cos^2\theta e^{-i\phi}\cos\theta \sin\theta]$$

$$[\sin\theta] = [\cos^2\theta \cos\theta \sin\theta]$$

$$[\cos^2\theta \cos\theta \sin\theta] = [\cos^2\theta \cos\theta \sin\theta]$$

= $cos 6 + cos 6 = e^{i\phi} surocos$ e 1 cm 308 10 te 10 cm 081/30 8 in 10 + de con 208/120 given Hamiltonial Operator H= KW Tax find $|\chi(t)\rangle = e^{-iH\chi}$ $|\chi(t=0)\rangle$ $\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$ (int }=) }-(t=0)) × 1's a solution for et = expEitwort