

## **Problems And Solutions In Quantum Mechanics K Tamvakis**

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4 Problems and Solutions i.e. the inequality given above should be an equality. Problem 8. Given the two normalized states  $|j\rangle = \frac{1}{\sqrt{2}}(|1\rangle + |2\rangle)$ ;  $|i\rangle = \frac{1}{\sqrt{2}}(|1\rangle - |2\rangle)$ : Find a unitary matrix  $U$  such that  $|j\rangle = U|i\rangle$ . Give the eigenvalues of  $U$ . Problem 9. Let  $A = \sum_{k=0}^3 a_k |k\rangle\langle k|$ ;  $B = \sum_{k=0}^3 b_k |k\rangle\langle k+1|$  where  $|0\rangle = |2\rangle$  and  $a_k, b_k \in \mathbb{R}$  with  $a_3 = 0$  and  $b_1 = a_1 b_0$  ...

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