

1. Read Griffiths Appendix and Chapter 1. Did you read all the pages?
2. Griffiths 1.3
3. Griffiths 1.4
4. Griffiths 1.8
5. Consider the basis vectors $\vec{u}_1 = (1, 2, 1)$ and $\vec{u}_2 = (0, 1, -2)$. Find \hat{u}_1 , \hat{u}_2 , and \hat{u}_3 such that $\hat{u}_i \cdot \hat{u}_j = \delta_{ij}$. Expand $\vec{F} = (3, 4, 5)$ in the $\{\hat{u}_i\}$ basis; that is, find the coefficients b_i where $\vec{F} = \sum_{i=1}^3 b_i \hat{u}_i$.