(3.1) Griffiths 6.27(a). This is an important and useful result. Parts of the original paper should be accessible to you; the reference is R. P. Feynman, *Phys. Rev.*, 56, 340, (1939). (4 points)

(3.2) Griffiths 6.1 and 6.4(a) (5 points).

(3.3) Griffiths 6.9 (5 points)

(3.4) Griffiths 6.8 (6 points)

(3.5) Griffiths 6.13 (6 points)