

Physics 4674/5674 – Problem set 2

1. C 1.8
2. C 1.11
3. Show that

$$\tilde{\epsilon}^{ijk}\tilde{\epsilon}_{ijm} = 2\delta_m^k$$

and that

$$\tilde{\epsilon}^{ijk}\tilde{\epsilon}_{ilm} = \delta_\ell^j\delta_m^k - \delta_m^j\delta_\ell^k$$