## Phys 3820, Fall 2011 Problem Set #5

1. For 5.0 MeV alpha particles incident on a gold nucleus (assume no recoil) make a plot of  $D(\theta)$  as given by Eq. (11.11)

Make sure your plot conveys information. If you need to plot  $\log_{10} D(\theta)$  to see something, then do so.

- **2.** *Griffiths*, **11.3**
- **3.** *Griffiths*, **11.6**
- 4. Griffiths, 11.9
- 5. Griffiths, 11.10
- **6.** Griffiths, **11.19**