

## Physics 451: Homework #6

Due Thursday, Sep 25, 5:00PM, 2008

2.13 See Gaussian integrals at back of textbook. You can do this problem just fine based on the material in section 2.3.2; we will study 2.3.1 later.

2.15 Note that the complimentary error function is defined as  $erfc(\alpha) \equiv \frac{2}{\sqrt{\pi}} \int_{\alpha}^{\infty} e^{-u^2} du$ .

You can find a table of values at

<http://www.hpcsoft.com/products/MathSoL/specialFunction/errorDataTable.html>

2.17