

Physics 632 Problem Set 3

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Due Friday February 2, 2007

3.1 Jackson 2.15

Note that for a two dimensional green function, the defining relation will be:

$$\nabla'^2 G(x, y; x', y') = -4\pi\delta(x - x')\delta(y - y')$$

i.e. one simply replaces the three dimensional delta function with a two dimensional one.

3.2 Jackson 2.16

3.3 Jackson 2.23