# PHY 711 – Assignment #19

Continue reading Chapter 7 in **Fetter and Walecka**.

1. Use the Laplace transform method to solve the following differential equation for $\phi(x)$ with initial conditions $\phi(0) = 0$ and $d\phi(0)/dx = 0$.

$$\left( -\frac{d^2}{dx^2} - 4 \right) \phi(x) = F_0,$$

where $F_0$ is a given constant.