

Homework Assignment #36

(due Nov. 20, 2020, 11pm, via gradescope)

1. Griffiths 7.28

Hints:

- For (a) use the result of problem 7.24, which is $\frac{L}{l} = \mu_0 n^2 \pi R^2$
- For (d) use the sketch provided in class Wed, Nov.18.

2. Griffiths 7.34

3. Griffiths 7.37

Hint: Use problem 1.46b, which defines the step function $\theta(x)$ and also tells us that $\frac{d\theta}{dx} = \delta(x)$.