

**Homework 8**  
**EE381-1 Electric & Magnetic Fields (Fall 2018)**  
**Friday, October 12, 2018**

- 1) PE4.13
- 2) 4.26 Assume  $\rho_v$  has units of nC/m<sup>3</sup>.
- 3) 4.28
- 4) 4.35
- 5) 4.47 Also, find the potential difference. Assume you start from cylindrical point (2 m, 0, 0).
- 6) 4.64 Also, (c) Determine the energy density.

**Note:** Unless otherwise specified, all locations are in meters.

**Due Wednesday, October 17, 2018.**