Physics 3800: Assignment #6

DUE: Wednesday February 24, 2016

Problems:

1. **Problem 24.14 on page 869**

2. **Problem 24.15 on page 869**

3. **Problem 24.19 on page 869**

4. **EM integral**

   Evaluate the following integral from Physics 4175;

   $$\int_0^{2\pi} d\theta \frac{A - \cos(\theta)}{A^2 + 1 - 2A\cos(\theta)} \tag{1}$$

   where A is real and $A \neq \pm 1$.