# Physics 5800: 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;

$$
\begin{equation*}
\int_{0}^{2 \pi} d \theta \frac{A-\cos (\theta)}{A^{2}+1-2 A \cos (\theta)} \tag{1}
\end{equation*}
$$

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

