Homework 6

Due: 12-4-13

Determine the indefinite integral in the following problems:

1. $\int 4t^3 + 3t^2 \; dt$
2. $\int 2\sin\theta \; d\theta$
3. $\int \frac{5}{1+y^2} \; dy$
4. $\int \left(\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4}\right) dx$
5. $\int u^{3/2} - u^{1/2} + u^{-1} + u^{-4} \; du$