Homework10

1. Evaluate the iterated integral.

   (a) $\int_1^3 \int_0^y \frac{4}{x^2+y^2} \, dx \, dy$

   (b) $\int_0^{\ln 10} \int_{e^x}^{10} \frac{1}{\ln y} \, dx \, dy$

2. Evaluate the double integral.

$$\int_0^4 \int_0^{\sqrt{4y-y^2}} x^2 \, dx \, dy$$