## Math 254N Assignment 15 Due at 12:30 PM Wednesday, May 23rd

Compute each iterated integral by hand, showing all steps by one of the two ways done in class. The answers to the first two should be the same, the answer to number three is $\frac{36}{5}$ and the answer to number four is $\frac{163}{4}$.

1. $\int_{1}^{2} \int_{3}^{5}(y-2 x) d y d x$
2. $\int_{3}^{5} \int_{1}^{2}(y-2 x) d x d y$
3. $\int_{0}^{2} \int_{y^{2}}^{2 y}(4 x-y) d x d y$
4. $\int_{1}^{2} \int_{1-x}^{\sqrt{x}} x^{2} y d y d x$
