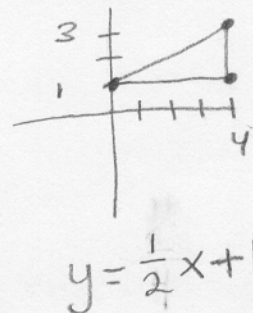


Each problem is worth 5 points. Clear and complete justification is required for full credit.

1. Set up limits of integration for the integral of a function f on the triangular region with vertices $(0,1)$, $(4,1)$, $(4,3)$.

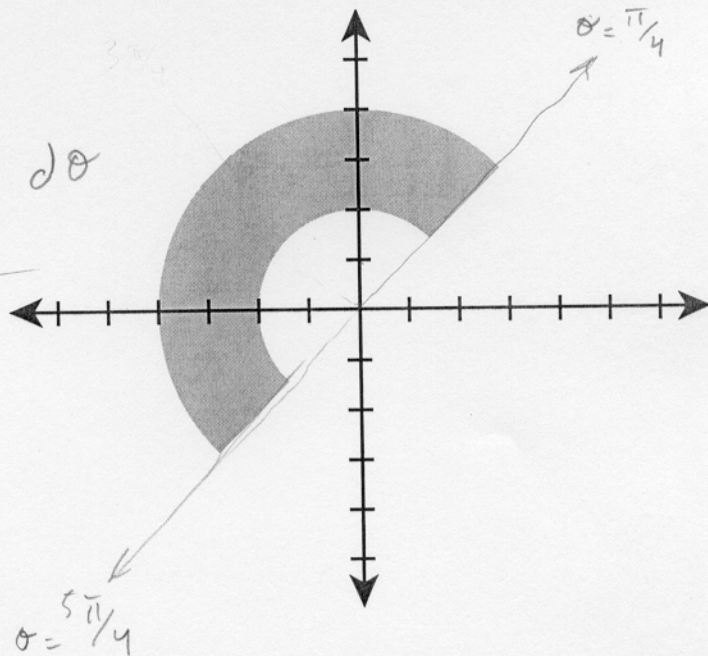
$$\int_{x=0}^4 \int_{y=1}^{y=\frac{1}{2}x+1} f(x,y) dy dx$$



Great

2. Set up limits of integration in polar coordinates for the integral of a function g on the region R shown below:

$$\int_{\theta=\frac{\pi}{4}}^{\theta=\frac{5\pi}{4}} \int_{r=2}^{r=4} f(r,\theta) r dr d\theta$$



Great