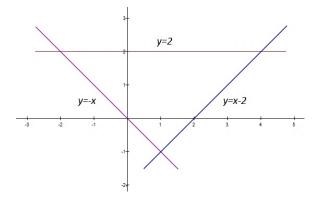
1. Integrate completely.

(a) 
$$\int_{-1}^{2} \int_{-y}^{y+2} (x+2y^2) dx dy$$
  
(b)  $\int_{0}^{1} \int_{0}^{x^3} e^{\frac{y}{x}} dy dx$ 

2. A region R is bounded by y = -x, y = 2, and y = x - 2. Set up the integral  $\iint_R f(x, y) dA$  first as a dxdy integral, and then as a dydx integral.



3. Evaluate  $\iint_R xy \, dA$ , where R is the region enclosed by the quarter circle in  $Q_{III}$  with equation  $x^2 + y^2 = 4$ .