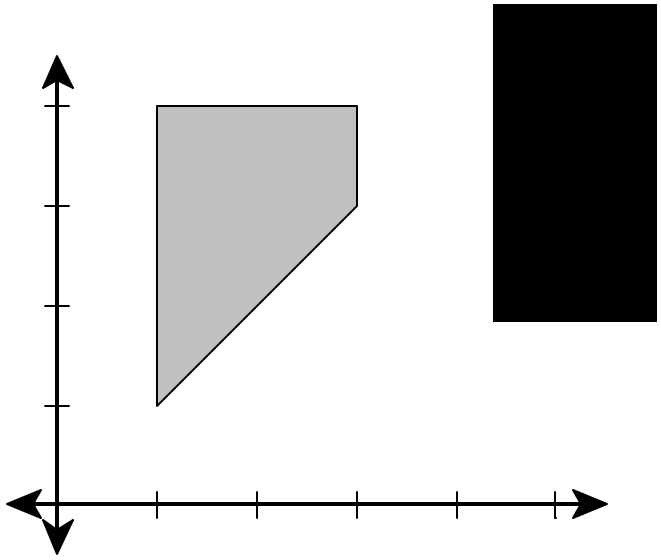
Quiz 4 Calculus 3 10/15/2004

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

1. Write $\int_R f\,dA$ as an iterated integral for the region R shown below:



2. Carefully sketch the region of integration represented by the integral $\int_{-2}^{0}\int_{-\sqrt{9-x^2}}^{0} 2xy\,dy\,dx$.