Math 225 : Quiz
Nov. 6, 1991
Show your work and circle your final answer.

1. Find the centroid of the region bounded by the graphs $y=1-x^{2}$ and $y=x^{4}-1$.
2.Evaluate the integral

$$
\int_{0}^{1} \int_{\sqrt{y}}^{1} \cos \left(x^{3}\right) d x d y
$$

by reversing the order of integration.

