MATH 261 Quiz 6 Name: .
Section:

Show all work. 5 points each.

1) Calculate the double integral $\iint_R \frac{xy^2}{x^2+1}\,dA$ with $R = \{(x,y)|0 \leq x \leq 1,\ -3 \leq y \leq 4\}$

2) Find limits of integration for $\iint_D xy\,dA$ where D is enclosed by $x = 0$ and $x = \sqrt{1-y^2}$