

Name: _____ MATH 210 Quiz 7 (Oct 21, 2005) no calculators!

(1) Write down the region D bounded by the curves $y = x^2$ and $y = 1$...
... as the region of type I:

... as the region of type II:

Compute the double integral $\iint_D y \, dA$ as type I:

(2) Compute type II integral $\int_0^\pi \int_{y/2}^{\pi/2} \cos(x^2) \, dx \, dy$ by...
... drawing the region D of integration:

... writing it down as type I region:

... and computing the integral of type I over D :