

Math 128A Quiz 5

1)(5 pts) Use Simpson's rule to approximate $\int_0^1 \int_x^{x^2} \frac{2xy}{4x^2 + y^3 + 1} dy dx$.

2)(5 pts) Use the two point Gaussian quadrature rule to approximate $\int_{-\infty}^{\infty} e^{-x^2} dx$.