

BRONX COMMUNITY COLLEGE
of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MATH 03
Nikos Apostolakis

Quiz 4
March 3, 2006

Name: _____

Secret Name: _____

Directions: You *must* show all your work in the provided space. Simplify your answers whenever possible. Be certain to indicate your final answer clearly.

1. Simplify each of the following expressions:

(a) $3^x \cdot 3^y \cdot 3^z$

(b) $-x^2(2x - 5)$

(c) $(x^5)^4$

(d) $\frac{6x^2y^3z^5}{-2xy^3z^3}$

(e) $(2x^2y - xy + y^2 - 2x^2) - (3x^2y - 2xy - y^2 + x^2)$