

NAME:

**BRONX COMMUNITY COLLEGE**  
of the City University of New York  
**DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE**

MTH05

Quiz 7 (Sample)

Simplify each of these expressions, removing all parentheses and negative exponents. Each problem is worth 10 points. Use pencil; do not use a calculator. Do all your work on this page if possible; use additional paper if necessary.

1.  $w^2w^3$

2.  $\frac{s^3t^4}{s^2t}$

3.  $(x^4y^2z)^3$

4.  $(5w^3)^2$

5.  $(x^3y^{-2})(x^{-1}y^3)$

6.  $\frac{z^{-2}}{z^{-5}}$

7.  $\frac{p^4q^{-5}}{p^{-1}q^2}$

8.  $\left(\frac{a^3b^4}{a^2b}\right)^2$

9.  $\frac{m^{-5}n^0}{m^{-3}n^{-4}}$

10.  $\left(\frac{x^3y^{-2}}{x^{-1}y^3}\right)^2$