BRONX COMMUNITY COLLEGE of the City University of New York

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

MATH 05 Nikos Apostolakis Quiz 8 November 11, 2008

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. Find the following products:

(a)
$$(x+3)(2x-5)$$

(b) $(2x-3)(x^2-3x+4)$

(c)
$$(2x+3)^2$$
 (d) $(2x+3)^3$

(e) (2x+3)(2x-3) (f) (x+1)(x-2)(x+3)

2. A rectangle has length 2x - 3 and width 4x + 5. Find a polynomial that expresses its area.

3. Perform the following divisions:

(a)
$$\frac{x^3y^4 + 9x^2y^4 - 6x^2y}{3xy}$$
 (b) $\frac{6x^2 + 13x - 1}{2x + 5}$

4. A rectangle has area $8x^2 - 10x - 3$. Its length is 2x - 3. Find its width.