

**Math 80 Quiz #7**  
**February 24, 2009**

Name: \_\_\_\_\_

Show all work and simplify your answers as much as possible.

1. Carry out the following operations.

(a) (2 pts.)  $3x^4(10x^2 - 4xy + y^2)$

(b) (2 pts.)  $(3t + 5)(t - 4)$

(c) (2 pts.)  $(3m - 2)^2$

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2. Factor the following. You may need to factor by grouping.

(a) (2 pts.)  $21a^2b^3 + 3ab^2$

(b) (2 pts.)  $4x^3 - x^2 + 8x - 2$