Spring, 1999
Peterson

MATH 105.

Homework 8.

DUE: Friday, March 26.

P1. Factor completely in each case:

(1) $8x^3 - 27$.

(2) $125x^3 + 8y^3$.

(3) $12x^2 - 29x + 15$.

(4) $12x^2 + 4x - 21$.

(5) $90x^3 - 15x^2 - 30x$.

(6) $x^3 + 3x^2 - 9x - 27$.

(7) $2x^4 - 32x^2$.

(8) $15x^4y + 35x^3y - 30x^2y$.

P2. Solve for x in each case:

(1) $x^2 - 14x + 45 = 0$.

(2) $x^2 - x = 20$.

(3) $2x^2 - x - 21 = 0$.

(4) $6x^2 + 13x = 15$.

(5) $2x^2 - 5x + 7 = x^2 + 2x + 25$.

(6) $(2x-2)(x-2) = (x+8)(x-3)$.