

MONTGOMERY COLLEGE
Department of Mathematics
Rockville Campus

MA 103 KATIRAIE QUIZ #6A Part I SECTIONS (5.5 - 5.6) FALL 2006

NAME _____ SCORE: ____/ 10
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1) Factor the following:

a) $4x^4 + y^4$

b) $100 - (n - 4)^2$

c) $4y^4 + 4y^3 + y^2$

d) $15t^2 - 11t + 2$

e) $64x^2 + 16x + 1$

2) Solve the following algebraically:

a) $3x^3 + 15x^2 + 12x = 0$

b) $4x^2 + 25 = 20x$

3) A 5-foot wide sidewalk around a rectangular swimming pool has a total area of 900 square feet. Find the dimensions of the swimming pool if the pool is 20 feet longer than it is wide.