

MONTGOMERY COLLEGE
Department of Mathematics
Rockville Campus

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

NAME _____ SCORE: ____ / 10
*** RETAIN ALL GRADED PAPERS FOR YOUR RECORDS ***

1) Factor the following:

a) $81 - (n + 3)^2$

b) $3t^2 - 5t - 8$

c) $16y^4 - 24y^3 + 9y^2$

d) $9z^2 + 64$

e) $3x^2 + 14x + 8$

2) Solve the following algebraically:

a) $2x^3 - 6x^2 = 20x$

b) $2x^2 - 3x = 2$

3) A rectangular frame surrounding a picture is made from boards that are 2 inches wide. The picture inside the frame is 4 inches wider than it is high. If the overall area of the picture and frame is 525 square inches, find the dimensions of the picture.