

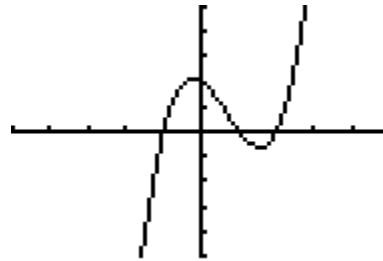
MONTGOMERY COLLEGE  
Department of Mathematics  
Rockville Campus

MA 103 KATIRAIE QUIZ #5 Form B SECTIONS (5.2 - 5.4) FALL 2007

NAME \_\_\_\_\_ SCORE: \_\_\_\_ / 20  
\*\*\* RETAIN ALL GRADED PAPERS FOR YOUR RECORDS \*\*\*

1) Given the following graph of  $f(x)$  find the following:

a) Estimate the  $x$  value(s) so that  $f(x) = 0$



b) Estimate  $f(-1.5)$

c) Estimate  $f(0.5)$

2) Multiply the following expressions (and simplify)

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

b)  $(x+3)^2$

c)  $(3-2x)(3-2x)$

d)  $(y+5)(y-4)$

3) Factor the following:

a)  $25x^2y + 10xy - 15x^2y^2$

b)  $6x^3 - 4x^2 + 9x - 6$

c)  $2x^2 + 7x + 3$

d)  $7y^2 + 7y - 42$

4) Solve the following algebraically:

a)  $2x^4 - 4x^3 = 0$

b)  $7x^2 = 9x$