MONTGOMERY COLLEGE Department of Mathematics Rockville Campus

MA	103 KA	TIRAIE	QUIZ #6A Part I	SECTIONS (5.5 - 5.6, and 6				l 6.1)	FALL	2007	
NAME	: 			<u></u>	*** RE	TAIN ALL			FOR YO		RDS ***
1)	Factor	the fol	lowing:								
a)	$16x^4 + 81$	y^4			b) 3	36–(<i>n</i>	(-2)	2			

c)
$$4y^4 + 4y^3 + y^2$$
 d) $3t^2 - 5t - 8$

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

- 2) Solve the following algebraically:
- a) $3x^3 + 15x^2 + 12x = 0$ b) $4x^2 + 25 = 20x$

3) The height in feet reached by a batted baseball after t seconds is given by $h(t) = -16t^2 + 66t + 2$

Determine when the baseball is 2 feet in the air.

4) Solve the following rational equations

a)
$$\frac{5}{2x+1} = 2x$$
 b) $\frac{3}{x} = \frac{2x+1}{x-1}$