Math2210 Quiz 4 (Sections 14.8, 14.9) Summer, 2010 Dylan Zwick

Name _____ Date ____

Instructions: Please show all of your work as partial credit will be given where appropriate, and there may be no credit given for problems where there is no work shown. All answers should be completely simplified, unless otherwise stated.				
1.	Name the type of quadric surface given by	$4x^2 + 4y^2 - 25z^2 + 100 = 0 .$		
	Type of surface:			
2.	Name the type of quadric surface given by	$4x^2 + 9y^2 + 49z^2 = 1764 .$		

Type of surface:_____

3.	a) Change	$(6, \frac{\pi}{6}, -2)$ fr	rom cylindrical coordinates to Cartesian.
			Answer:
	b) Change	(2,2,3) from	Cartesian coordinates to cylindrical.
			Answer:
4.	Change x^2	$x^2 + y^2 + 4z^2 = 10$	to the following coordinates:
	a) Spherical		
			Answer:
	b) Cylindricc	ıl	

Answer:_____