Full name:	GT ID:	Sec:
Q	uiz 8 Version B	
You have 15 minutes to take the quiz. N	No phones, notes, or use aids of any kind is per	mitted.
1. (4 points) [Cylindrical and Sphe	rical Coordinates] Fill in the blanks.	[AN]
(a) Find the spherical coordinates	of the point $(x, y, z) = (0, 3, 3\sqrt{3}).$	

(b) State the volume differential dV for spherical coordinates.



## 2. (6 points) [Triple Integrals in Rectangular Coordinates]

Set up and evaluate a triple iterated integral in cartesian (rectangular) coordinates which computes the volume of the region D. The region D is the region bounded by the coordinate planes, the plane y + z = 1, and the cylinder  $x = 1 - y^2$ . *Hint:*  $dV = dz \, dx \, dy$ . [AJN]