Full name:	GT ID:	Sec:
Qı	uiz 8 Version A	
You have 15 minutes to take the quiz. No	o phones, notes, or use aids of any kind is pe	ermitted.
1. (4 points) [Cylindrical and Spher	ical Coordinates] Fill in the blanks.	[AN]
(a) Find the spherical coordinates o	of the point $(x, y, z) = (0, 3\sqrt{2}, 3\sqrt{2})$ .	
(b) State the volume differential $dV$	for spherical coordinates. $dV = -\frac{1}{2} \int_{-\infty}^{\infty} dV dV$	
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-	ted integral in cartesian (rectangular) coo. The region $D$ is the tetrahedron in the first	
Hint: $dV = dz  dy  dx$ .	-	[AJN]