Cylindrical Coordinates

Practice Your Understanding

Name:	
Date:	

1. Write down the equations for converting from Cartesian coordinates to Cylindrical coordinates and for converting from Cylindrical coordinates to Cartesian coordinates below:

2. Using the formula for converting from Cartesian to Cylindrical coordinates, calculate the Cylindrical coordinates for the point (3.2, -7.5, -4.8) (x, y, z). Show all of your work for the conversion in the box below:

3. Using the formula for converting from Cylindrical to Cartesian coordinates, calculate the Cartesian coordinates for the point (7.6, 65.32, 8.9) (r, θ, z) . Show work for the conversion in the box below (Note: You can round your answer to up to two decimal places):