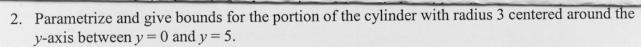
Each problem is worth 5 points. Clear and complete justification is required for full credit.

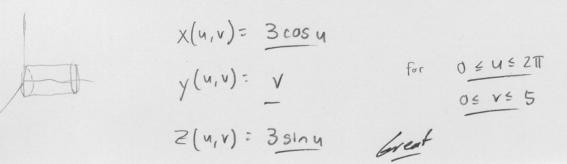
1. Parametrize and give bounds for the portion of the paraboloid $x = y^2 + z^2$ between y = 0, y = 2, z = 0, and z = 3.

$$X(u,v) = u^2 + v^2$$

$$Y(u,v) = V$$

$$Z(u,v) =$$





3. Parametrize and give bounds for a sphere with radius 5, centered at the origin.