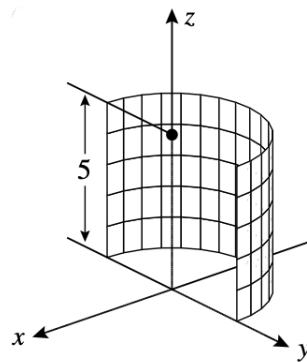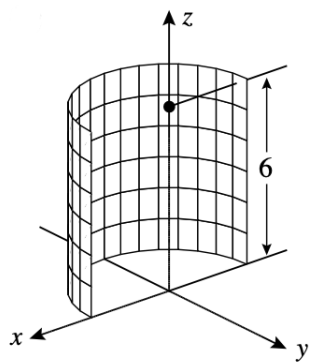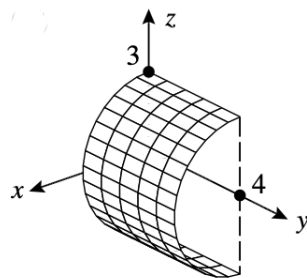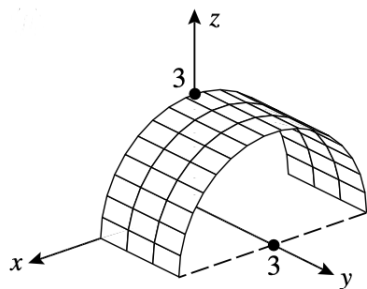1. Parameterize each of the surfaces below. Make sure to include the domain of your parameterization.

2. Parameterize the part of the plane $z = x + 3$ that lies inside the cylinder $x^2 + y^2 = 1$.

3. Parameterize the part of the cone $z = \sqrt{x^2 + y^2}$ that lies on or below $z = 3$.

4. Parameterize the part of the cone $z = \sqrt{x^2 + y^2}$ that lies in front of the yz-plane.