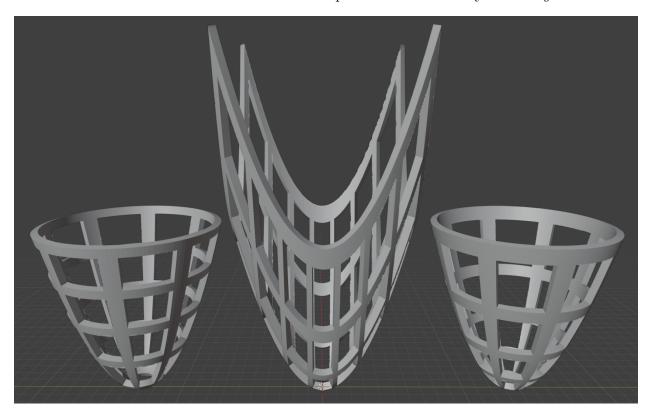
Consider the three different 3D models for the paraboloid defined by  $z = x^2 + y^2$ .



The three different models are made from the three parametrizations

$$\mathbf{r}_{1}(r,\theta) = \langle r\cos(\theta), r\sin(\theta), r^{2} \rangle$$

$$\mathbf{r}_{2}(\theta,t) = \langle \sqrt{t}\cos(\theta), \sqrt{t}\sin(\theta), t \rangle$$

$$\mathbf{r}_{3}(u,v) = \langle u, v, u^{2} + v^{2} \rangle$$

and also exhibit the grid lines for each parametrization.

Match the 3D models to the parametrizations used to create them.