1. With the printed surface, determine how many traces are present (they are indicated with a raised bump). Do they all represent traces on the $x y$-plane, the $y z$-plane, and the $x z$-plane, or are some shifted? How can you tell?
2. Investigate the traces again on the printed surface. What basic curve does each trace represent?
3. This surface is a hyperbolic paraboloid, which is given by an equation of the form $z=\frac{x^{2}}{a^{2}}-\frac{y^{2}}{b^{2}}$. For the following traces, write the equation and identify the basic curve it represents:
(a) $x=0$
(b) $y=0$
(c) $z=1$
4. Match the above traces with the physical traces on the printed surface!
