1   For each of the following surfaces:

   (i) Decide whether the surface is the graph of a function $f(x, y)$. If so, give a possible $f(x, y)$. If not, explain why not.

   (ii) Decide whether the surface is a level set of a function $F(x, y, z)$. If so, give a possible $F(x, y, z)$. If not, explain why not.

   (iii) Decide whether the surface has a parametric representation. If so, give a possible $\mathbf{r}(u, v)$. If not, explain why not.

   Here are the surfaces:

   (a) $z = x^2 + y^2$

   (b) $x = y^2 + z^2$

   (c) $2x + 3y + 4z = 12$