

For each equation,

(a) Find a parametric representation of the surface.

(b) Graph the surface on Maple in two ways:

(i) Use the original equation, and

`implicitplot3d(_____, x=a..b, y=c..d, z=e..f);`

(ii) Use your parametric equations, and

`plot3d([x(u,v), y(u,v), z(u,v)], u=a..b, v=c..d);`

(c) Identify the surface.

1. $y = 3x^2 + 2z^2$

2. $z^2 = 4x^2 + 9y^2$