Recall:

▶ Parametric equations for a surface (as opposed to a a curve) are of the form

$$x = f(u, v)$$
 $y = g(u, v)$ $z = h(u, v)$.

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▶ When we have y = f(x), we parametrize that by x = t, y = f(t).

For each equation,

- (a) Find a parametric representation of the surface.
- (b) Graph the surface on Maple in two ways:
 - (i) Enter the original equation, and use the interactive menu to plot it implicitly.
 - (ii) Enter your parametric equations (as a list within square brackets) and use the interactive menu to plot those.
- (c) Identify the surface.

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

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