Math 2551 Worksheet Section 12.6

1. For the following, identify the type of surface and sketch the surface.

   (a) $x^2 + 4z^2 = 16$.

   (b) $9x^2 + z^2 + y^2 = 9$.

   (c) $y^2 = x^2 + 3z^2$.

   (d) $z = x^2 + y^2 + 4$.

   (e) $y = z^3$.