- 1. Consider the surface $-x^2 y^2 + z^2 = 1$
 - 1.1 Sketch the traces in the *yz*-plane, the *xy*-plane, and the planes $z = \pm 1$, $z = \pm 5$.
 - 1.2 Use your traces to sketch a graph of the surface, and verify your graph using Maple. This is a *hyperboloid of two sheets*.
- 2. Consider the surface $z = x^2 y^2$.
 - 2.1 Sketch the traces in the *yz*-plane, the *xz*-plane, the *xy*-plane and the planes $z = \pm 1$, $z = \pm 2$.
 - 2.2 Use your traces to sketch a graph of the surface, and verify your graph using Maple. This is a *hyperbolic paraboloid*.

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