5. Let \( f(x, y) = x^2 - y^2 \). Graph and label the level sets which correspond to levels 1, 0, and -1 for this function.

- **Level 1**: \( 1 = x^2 - y^2 \) (hyperbola)
- **Level 0**: \( 0 = x^2 - y^2 \) (2 lines) \( x = y, x = -y \)
- **Level -1**: \( -1 = x^2 - y^2 \) (hyperbola)

6. Graph and name \( z = x^2 + y^2 \) in 3-space.

*Paraboloid*