\[ z = z_0 \text{ traces: } \frac{x^2}{4} + \frac{y^2}{9} = 1 + z_0^2 \]
for \( z_0 = -2, 0, 2 \)

(b) \[ \text{xyz-trace: } \frac{x^2}{4} - z^2 = 1 \]
(hyperbola)

(c) \[ \text{yz-trace: } \frac{x^2}{9} - z^2 = 1 \]
(hyperbola)

(d) Hyperboloid of one sheet
\[ \frac{x^2}{4} + \frac{y^2}{9} - z^2 = 1 \]

Related Exercises 45-48