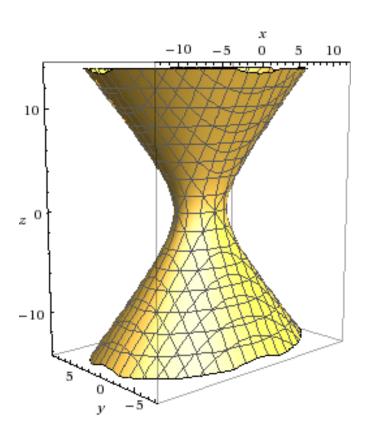**Question #49927, Math,**

sketch the graph of 4x^2+9y^2-3z^2=36 and identify the surface

Answer.

$$4x^2 + 9y^2 - 3z^2 = 36$$

$$\frac{x^2}{9} + \frac{y^2}{4} - \frac{z^2}{12} = 1 - hyperboloid\ of\ one\ sheet.$$