

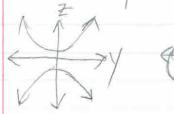
 $h(\frac{9}{2}) = \frac{41}{2}$  h(0) = -6|  $c)k(y) = f(0, y), 0 \le y \le 9$ Using symmetry, k(1) = 3, k(0) = 2, and k(9) = -61. Absolute minima: -61 at (9,0) and (0,9)Absolute maximum: 4 at (1,1)

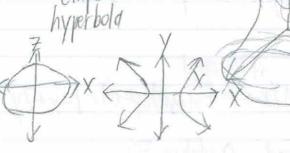
Review for test:

EXJ Find the max of d=2x+2y+5= in the surface ==9-x2-y2.

First step is to substitute for z: d(x, y)=2x+2y+5(9-x2-y2)

Exi Draw the surface  $9x^2=3y^2-4z^2+1$ .  $x=0 \Rightarrow 3y^2-4z^2=-1$  hyperbola  $y=0 \Rightarrow 9x^2+4z^2=1$  ellipse  $z=0 \Rightarrow 9x^2-3y^2=1$  hyperbola





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