

Math 181

Computer Lab

Use Maple to plot the surfaces. Identify of quadric surface from your graph.

1. $\frac{x^2}{9} + \frac{y^2}{36} = 1 - \frac{z^2}{25}$

2. $\frac{x^2}{9} - \frac{z^2}{9} = 1 - \frac{y^2}{9}$

3. $5x^2 = z^2 - 3y^2$

4. $\frac{y^2}{16} = 1 - \frac{x^2}{9} + z$

5. $y - \sqrt{4 - z^2} = 0$

To plot:

>with(plots):

You want to implicitly plot these equations instead of solving each equation for z.

>implicitplot3d(equation,x=xmin..xmax,ymin..ymax,zmin..zmax);

Lab is due Wednesday, December 3..