

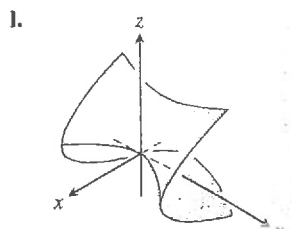
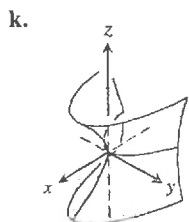
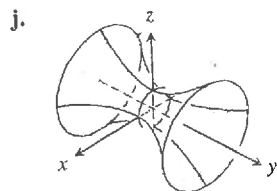
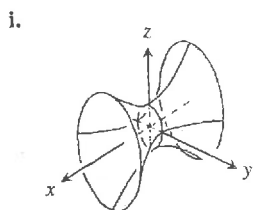
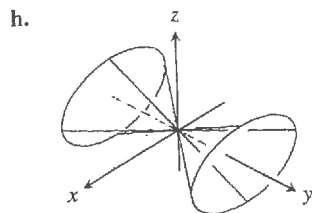
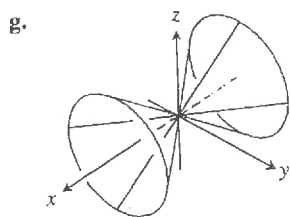
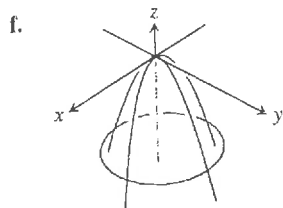
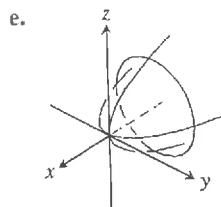
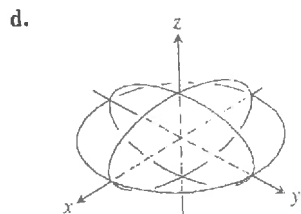
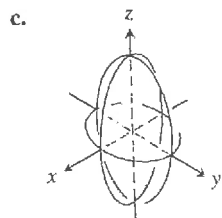
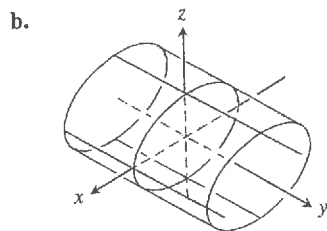
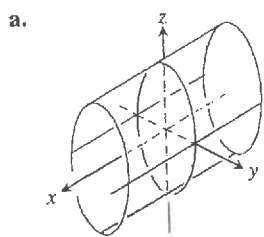
No calculators, cell phones, computers, notes, etc.

Circle your answer. Make your work correct, complete and coherent.

The quiz is worth 5 points. The solutions will be posted on my website later today.

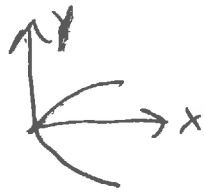
Quiz 3, September 26, 2017, 11:40 class

Which of the pictures given below is the graph of $x = y^2 - z^2$? Please explain thoroughly.



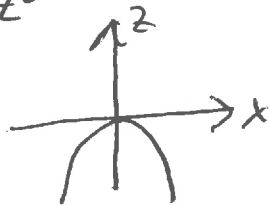
$$X = y^2 - z^2 \quad \boxed{11:40}$$

In the XY plane $X = y^2$



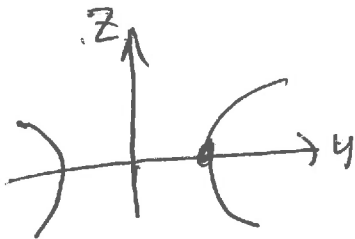
Parabola

In the XZ plane $X = -z^2$



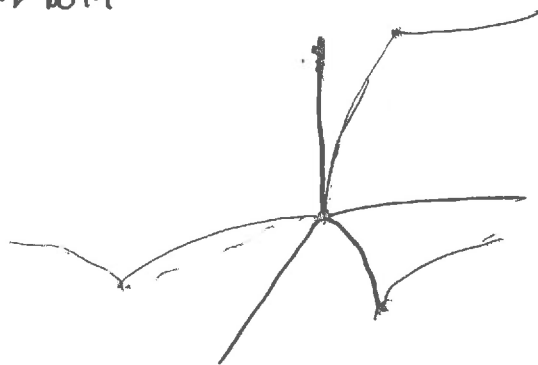
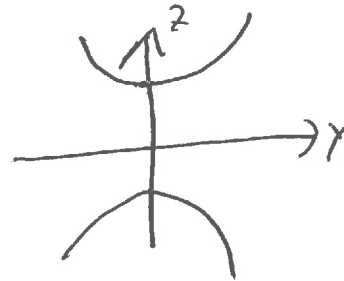
Parabola

If X is a positive constant
the



hyperbola

If X is a negative constant
the



This is a saddle surface. We are given 2 saddle surfaces
namely h and l . Only l has the parabola.

$$X = y^2 \text{ when } z = 0.$$