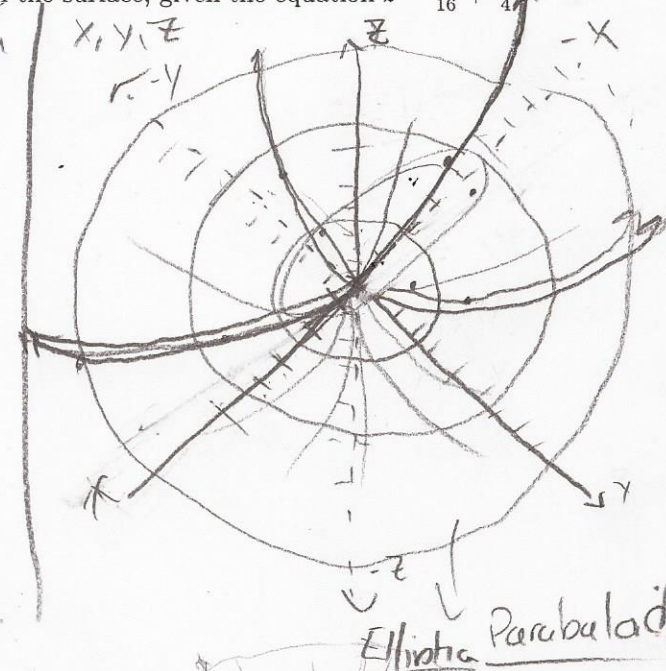
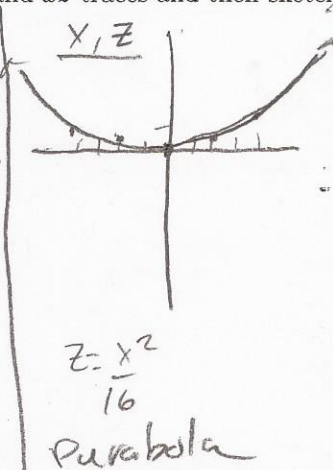
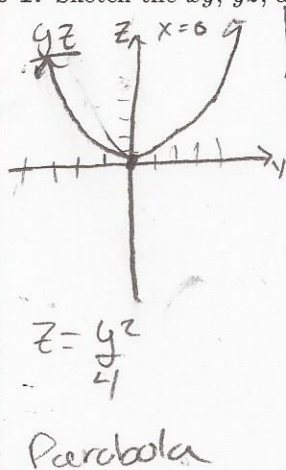
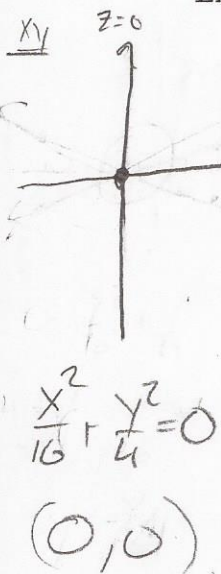


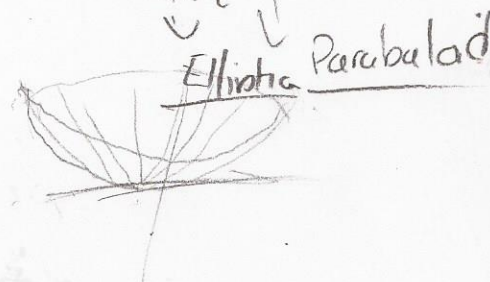
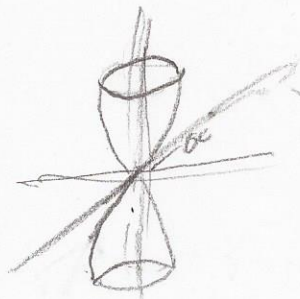
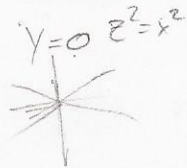
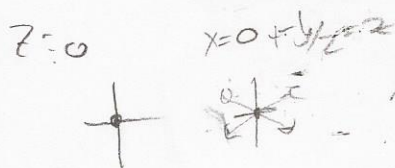
Name: Erik Sundblad

Worksheet 7.8

Exercise 1. Sketch the  $xy$ ,  $yz$ , and  $xz$ -traces and then sketch the surface, given the equation  $z = \frac{x^2}{16} + \frac{y^2}{4}$ .



Exercise 2. Sketch the hyperboloid  $z^2 = x^2 + \frac{y^2}{4}$ .



$x=0$   
 $\frac{y^2}{4} = z^2$   
 $\pm \frac{y}{2} = z$

$y=0$   
 $-x = z$   
 $x = z$

point  
 $z=0$   
 $x=0$   
 $y=0$   
(0,0,0)