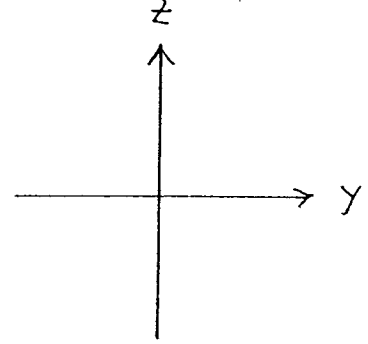
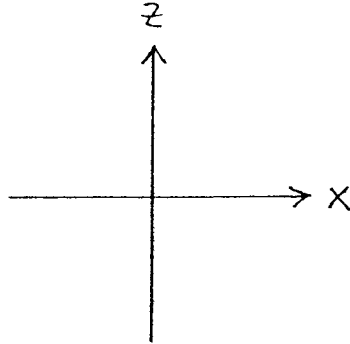
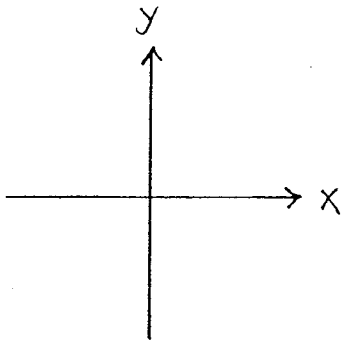


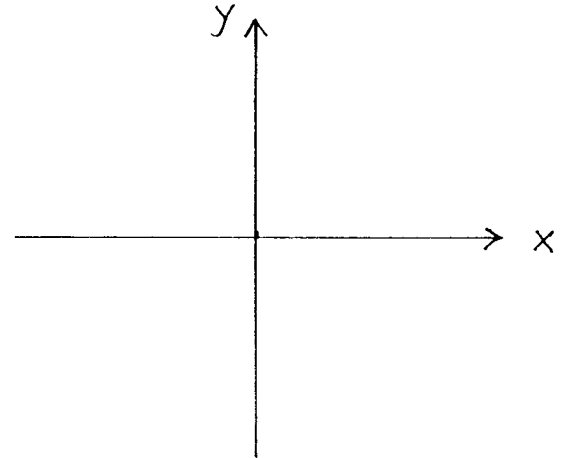
5.) Consider the equation  $z = 9 - x^2 - y^2$ .

a.) (3 pts.) Determine the  $x$ -,  $y$ -, and  $z$ -intercepts for this surface.

b.) (3 pts.) Determine and sketch the  $xy$ -,  $xz$ -, and  $yz$ -traces for this surface.



c.) (3 pts.) Determine and sketch the level curves for this surface using the following values for  $z$  : 8, 5, -7.



c.) (3 pts.) Sketch this surface in 3D-Space.

