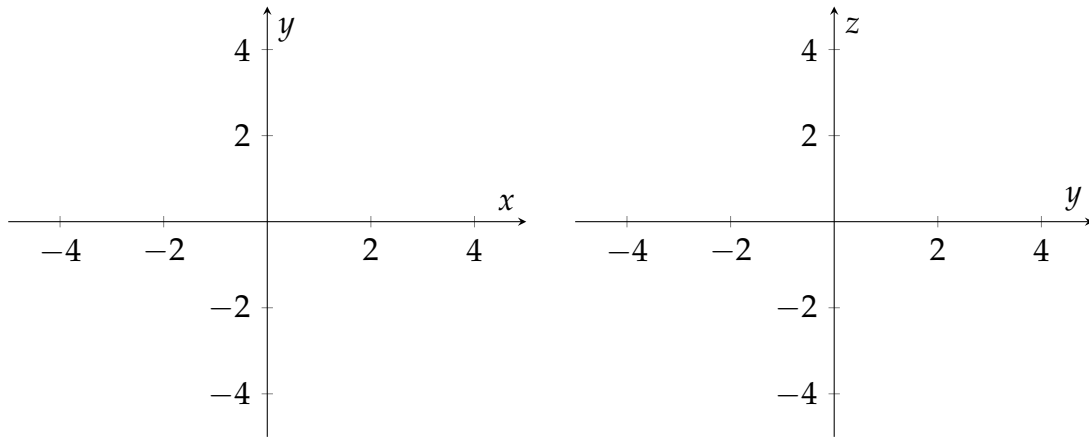


1. Let  $S$  be the surface defined by  $z^2 = x^2 + y^2$ .

- a) Graph the intersection of  $S$  and  $z = 2$       b) Graph the intersection of  $S$  and  $x = 0$



- c) Sketch a graph of the surface  $S$ . Label the axes, and at least one point on the surface of  $S$ .