

A hand-drawn diagram of a 3D coordinate system. The axes are labeled  $x$ ,  $y$ , and  $z$ . The  $x$ -axis is horizontal, the  $y$ -axis is vertical, and the  $z$ -axis is diagonal. A rectangular prism is drawn in the first octant, with its edges labeled with  $x$ ,  $y$ , and  $z$ . The prism's top face is labeled  $x$ , its front face is labeled  $y$ , and its side face is labeled  $z$ . The axes are labeled  $x$ ,  $y$ , and  $z$  at their ends.