INTRODUCTION TO THREE DIMENSIONAL GEOMETRY

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To locate a point in a plane we need a two dimensional coordinate system. On similar lines to locate a point in space we use a three dimensional coordinate system. Consider three planes intersecting at a point O. The coordinate axes x-axis, y-axis and z-axis are shown by dark lines. i.e., if we have an insect on the floor of a room, we can specify its position by a two dimensional coordinate system but if a spider is hanging from the roof of a room we specify its position in a three dimensional coordinate system.