

Coordinates in Space

Describing sets of points in \mathbb{R}^3 .

Describe the following sets of points algebraically and geometrically.

- (a) The set of points equidistant from the xy -plane and the point $(0, 0, 2)$.
- (b) The set of points twice as far from $A(0, 0, 0)$ as from $B(2, 4, 6)$.

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Geogebra link: <https://tube.geogebra.org/m/d2xv3dwc>