Group	Scribe		
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Other group	members		

Group Quiz for Section 1.5

Determine which of the following are and are not subspaces of the given vector space, and justify your answers.

- 1. The x axis in \mathbb{R}^3 .
- 2. The set $\left\{ \begin{bmatrix} x \\ y \end{bmatrix} : x, y \ge 0 \right\}$ in \mathbb{R}^2 (i.e., the first quadrant of the plane).
- 3. The set $\left\{ \begin{bmatrix} x \\ y \end{bmatrix} : x,y \ge 0 \right\} \cup \left\{ \begin{bmatrix} x \\ y \end{bmatrix} : x,y \le 0 \right\}$ in \mathbb{R}^2 (i.e., the first and third quadrants of the plane).