Group $\qquad$ Scribe

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 $\left\{\left[\begin{array}{l}x \\ y\end{array}\right]: x, y \geq 0\right\}$ in $\mathbb{R}^{2}$ (i.e., the first quadrant of the plane).
3. The set $\left\{\left[\begin{array}{l}x \\ y\end{array}\right]: x, y \geq 0\right\} \cup\left\{\left[\begin{array}{l}x \\ y\end{array}\right]: x, y \leq 0\right\}$ in $\mathbb{R}^{2}$ (i.e., the first and third quadrants of the plane).
