## Homework of quotient space

Let $X=\left\{x \mid x=\left(x_{1}, x_{2}\right) \in R^{2}\right\}$. The vector $x, y$ in $X$ can be drawn as a vector in the following figure. $Y$ is a line though the origin as described in the figure. Then $Y$ is a subspace. Please draw the congruence class mod $Y$ of $x$ and $y$ and draw the sum of two congruence classes $\{x\}+\{y\}$.


