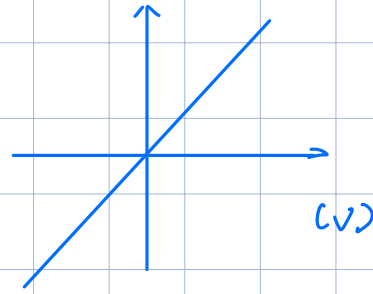
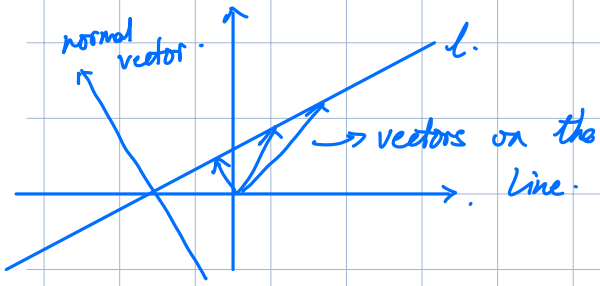


1. For a line, its normal vector perpendicular to all vectors on the line (x).  
(only perpendicular to its direction vector unless it passes through origin).



2. all vectors in eigenspace are eigenvector (F).  
eigenspace might contain  $\vec{0}$ . but eigenvector  $\neq \vec{0}$ .  
 $\therefore$  All non-zero vectors in .....