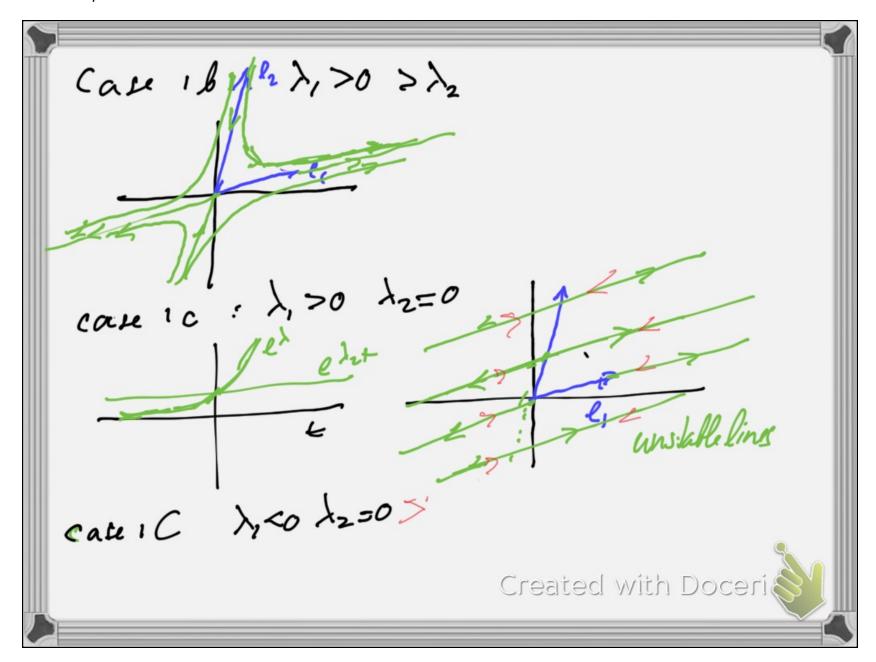
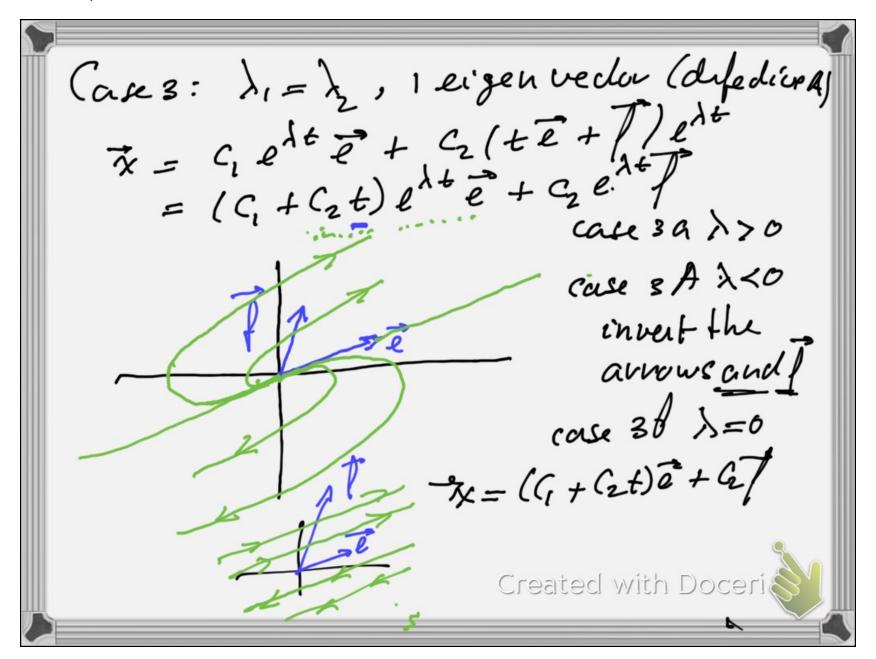


aim113020.pdf Page 2 of 7



Case 2: real equal eigenvalues, 2 ligenvectors case 2a: $\lambda_1 = \lambda_2 = \lambda > 0$ $A = \lambda I$ $\vec{X} = \ell^{At} \left(C_i \vec{I}_i + C_2 \vec{\ell}_2 \right)$ unstable stav case 2A $\lambda_1 = \lambda_2 = \lambda < 0 > s$ fable star Case 26: $\lambda_1 = \lambda_2 = 0$ $\vec{x} = \zeta \vec{\ell}_1 + \zeta \vec{\ell}_2$ stable points Created with Doceria



Case 4: Complex conjugate eigenvalues $\vec{x} = d$, $e^{i_{xt}}$ [\vec{u} cospt $-\vec{v}$ sin $\vec{\mu}$ \vec{t}] + d2 e h+ [Th sin pet + U cos pet]
= ehn+ [(d, cospet + d2 sin pet) ti + (dz cespet - disingut) V7 Wrik di = Dces x dz = Dsina $\vec{x} = e^{\lambda_n t} \left[D \cos(\mu t - \alpha) \vec{u} - D \sin(\mu t - \alpha) \vec{v} \right]$ $\vec{x} = e^{\lambda_n t} \left[D \cos(\mu t - \alpha) \vec{u} - D \sin(\mu t - \alpha) \vec{v} \right]$ $\vec{x} = e^{\lambda_n t} \left[D \cos(\mu t - \alpha) \vec{u} - D \sin(\mu t - \alpha) \vec{v} \right]$ $\vec{x} = e^{\lambda_n t} \left[D \cos(\mu t - \alpha) \vec{u} - D \sin(\mu t - \alpha) \vec{v} \right]$ $\vec{x} = e^{\lambda_n t} \left[D \cos(\mu t - \alpha) \vec{u} - D \sin(\mu t - \alpha) \vec{v} \right]$ $\vec{x} = e^{\lambda_n t} \left[D \cos(\mu t - \alpha) \vec{u} - D \sin(\mu t - \alpha) \vec{v} \right]$ ひずール マーク

aim113020.pdf Page 6 of 7

