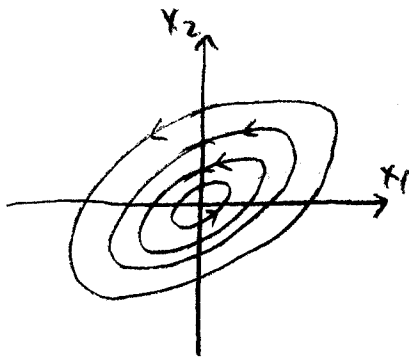
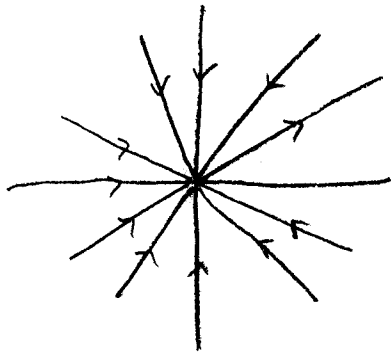


Week 8 summary:

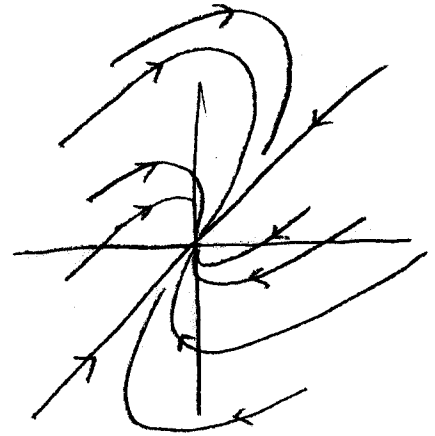
- More phase plane portraits (Examples:)



$\lambda_{1/2} = \pm bi$



$\lambda_1 = \lambda_2 < 0$
two eigenvectors



$\lambda_1 = \lambda_2 < 0$
one eigenvector

- SIR model (epidemiology)

System of 3 ODEs, where

$S(t)$ = # susceptible people

$I(t)$ = # infectious people

$R(t)$ = # recovered people.