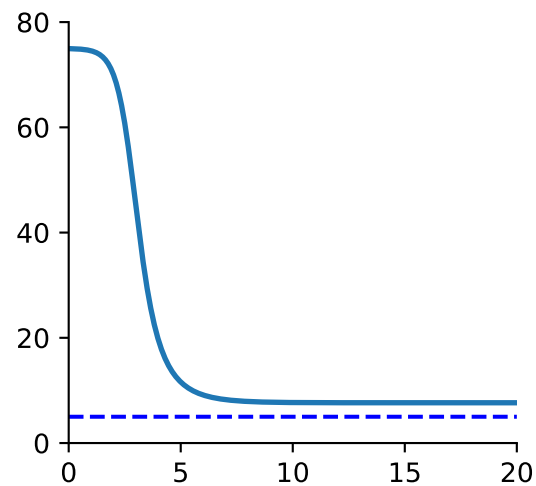
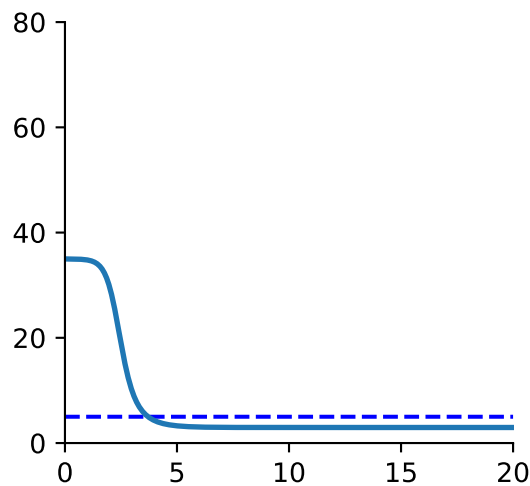
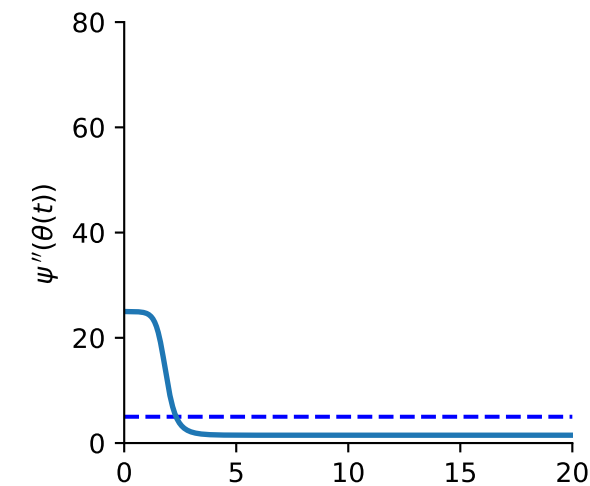
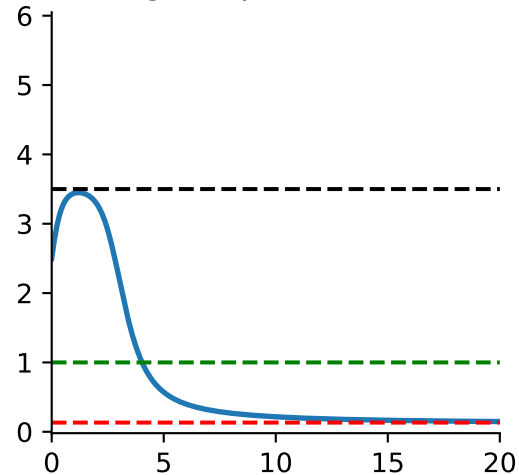
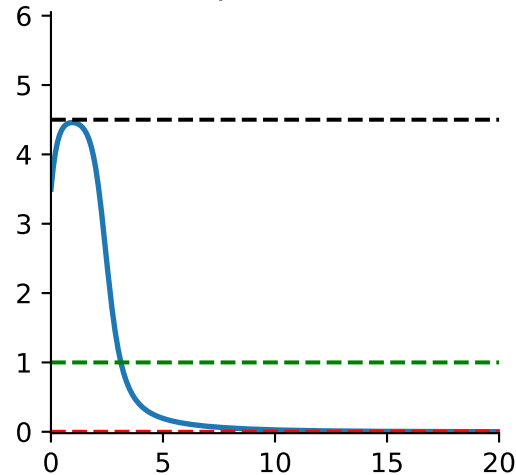
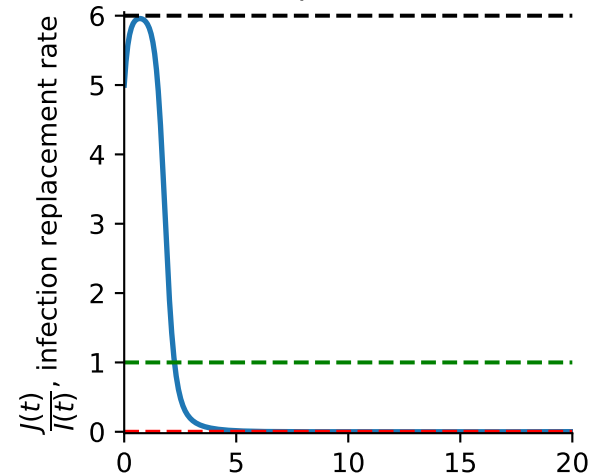


Poisson network,  
no dispersion  $\delta=0$

negative binomial network,  
low dispersion  $\delta=0.4$

negative binomial network,  
high dispersion  $\delta=2$



$t$  ( $\gamma$ -scaled time)

---  $\max \frac{J(t)}{I(t)} = \beta \left( \frac{\psi''(1)}{\psi'(1)} - 1 \right)$

---  $\lim_{t \rightarrow \infty} \frac{J(t)}{I(t)} = \max \left\{ \beta \left( \frac{\psi''(\theta(\infty))}{\psi'(1)} - 1 \right), 0 \right\}$

---  $\gamma$ , infection recovery rate

---  $\mu$ , network degree mean