

# Scaling

$$\frac{dN}{dT} = rN[1 - N/k] \quad n = N/k \quad \text{or} \quad N = kn$$

$$\frac{dkn}{dT} = k \frac{dn}{dT} = rkn[1 - kn/k] \quad \text{or} \quad \frac{dn}{dT} = rn[1 - n]$$

$$t = rT \quad \rightarrow \quad r \frac{dn}{dt} = rn[1 - n] \quad \text{or} \quad \frac{dn}{dt} = n[1 - n]$$