$$\phi = 1/(1 + E^{\wedge}(-\lambda))$$

$$\frac{1}{1+e^{-\lambda}}$$

$$D[\phi,\lambda]$$

$$\frac{e^{-\lambda}}{(1+e^{-\lambda})^2}$$

$\operatorname{Simplify}[D[1-\phi,\lambda]]$

$$-\tfrac{e^\lambda}{(1+e^\lambda)^2}$$

Simplify $[1 - \phi]$

$$\frac{1}{1+e^{\lambda}}$$

$$D\left[\tfrac{1}{1+e^{\lambda}},\lambda\right]$$

$$-\frac{e^{\lambda}}{(1+e^{\lambda})^2}$$

$$\phi = \Phi_1 \Phi_2 \Phi_3 \Phi_4$$

$$\Phi_1\Phi_2\Phi_3\Phi_4$$

$$D\left[\phi,\Phi_{2}
ight]$$

$$\Phi_1\Phi_3\Phi_4$$

$\mathrm{Clear}[\phi]$

$$\lambda = \mathrm{Log}[\phi/(1-\phi)]$$

$$\operatorname{Log}\left[\frac{\phi}{1-\phi}\right]$$

$\operatorname{Simplify}[D[\lambda,\phi]]$

$$\frac{1}{\phi-\phi^2}$$