



The mechanics of the exponentiation function

$$1 = 3$$

$$\Rightarrow \exp(3) = 2.71 \cdot 2.71 \cdot 2.71$$

$$(\exp(a+b) = \exp(a) \cdot \exp(b)$$

$$2xp(3) = exp(2+1) = 2.71 \cdot 2.71 =$$

$$= \exp(2) \cdot \exp(1)$$

Demonstrating the reciprocal nature of logit and expit functions

logit
$$(p) = log (1-p) = (y)$$
expit $(y) = exp(y) = p$