	ϕ	w	$b(\theta)$	$c(y,\phi)$	$\mu = b'(\theta)$	$b''(\theta)$
Normal $Y \sim N(\theta, \phi)$	ϕ	1	$\theta^2/2$	$-(y^2/\phi + \log(2\pi\phi))/2$	θ	1
Poisson $Y \sim Po(e^\theta)$	1	1	e^θ	$-\log(y!)$	e^θ	μ
Binomial: $nY \sim Bi(n, e^\theta/(1+e^\theta))$	1	n	$\log(1+e^\theta)$	$\log\binom{n}{ny}$	$e^\theta/(1+e^\theta)$	$\mu(1-\mu)$
Gamma $Y \sim Ga(\nu, \lambda)$ †	ϕ	1	$-\log(-\theta)$	$\nu\log\nu + (\nu-1)\log y$ $-\log\Gamma(\nu)$	$-1/\theta$	μ^2

†pdf $f(y) = \lambda^\nu y^{\nu-1} e^{-\lambda y}/\Gamma(\nu)$ where $\lambda = -\theta/\phi$ and $\nu = 1/\phi$.