X
α
β
γ
c

$$f_{BW}(x) = \frac{c}{\gamma B(\alpha,\beta)}(\frac{x}{\gamma})^{c-1}[1-e^{(-x/\gamma)^c}]^{\alpha\alpha-1}e^{-\beta(x/\gamma)^c}, x > 0.$$

$\beta =$
1
$\alpha =$
1
X
5
$c =$
5
$\alpha =$
1
$5 =$
5
$\alpha =$
1
$c =$
1
$\alpha \equiv$
$c \equiv$
1
$\alpha \equiv$
$c \equiv$
1
$\alpha c \leq$
1
$c \leq$
1
$\alpha c >$
1
$c >$
1
$\alpha c <$
1
$c >$
1
$\alpha c >$
1
$c <$
1
n

$$E(X^n) = \frac{\gamma^n \Gamma(n/c+1)}{B(\alpha,\beta)} \sum_{j=o}^{n} \binom{\alpha-1}{j} \frac{(-1)^j}{(\beta+j)^{\gamma/c+1}}$$

α
$j >$
$\alpha -$
1
$\binom{\alpha-1}{j}$
α
$\binom{\alpha-1}{j}$

$$\binom{\alpha-1}{j} = \frac{(\alpha-1)...(\alpha-j)}{j!}$$