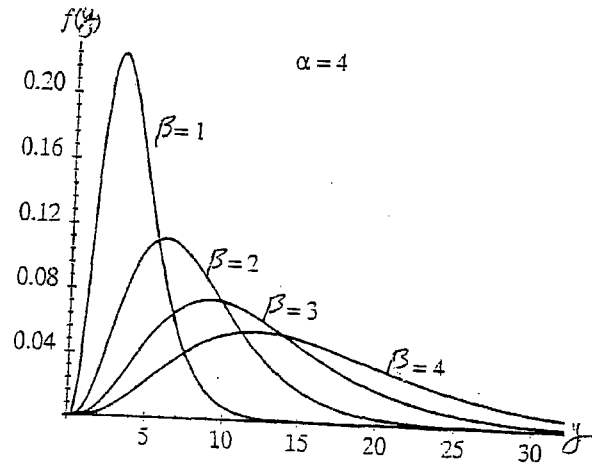
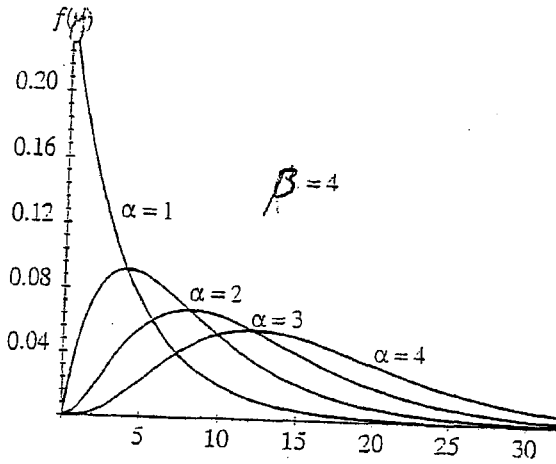


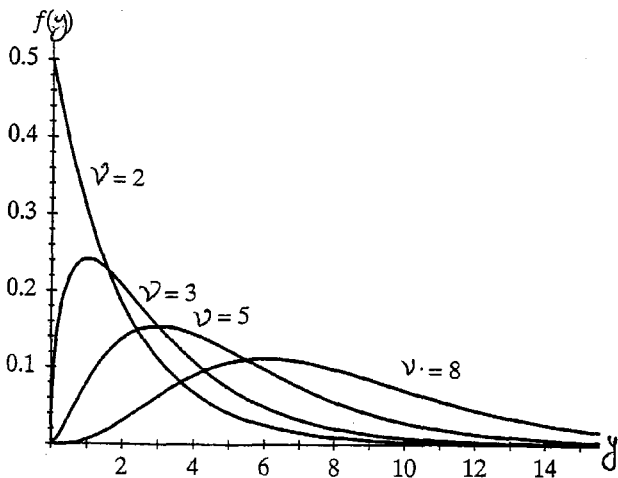
Gamma pdf with parameters  $\alpha > 0$  &  $\beta > 0$

$$f(y) = \begin{cases} \frac{y^{\alpha-1} e^{-y/\beta}}{\beta^\alpha \Gamma(\alpha)} & , y \geq 0 \\ 0 & , \text{otherwise} \end{cases}$$



$\chi^2$  pdf with  $\nu$  df

$$f(y) = \begin{cases} \frac{y^{\nu/2-1} e^{-y/2}}{2^{\nu/2} \Gamma(\nu/2)} & , y \geq 0 \\ 0 & , \text{otherwise} \end{cases}$$



Exponential pdf with parameter  $\beta > 0$

$$f(y) = \begin{cases} \frac{1}{\beta} e^{-y/\beta} & , y \geq 0 \\ 0 & , y < 0 \end{cases}$$

