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$$beta(p|\alpha,\beta)=\frac{\Gamma\left(\alpha+\beta\right)}{\Gamma\left(\alpha\right)\Gamma\left(\beta\right)}p^{\alpha-1}\left(1-p\right)^{\beta-1},\alpha,\beta>0$$

(1)

$$\frac{p}{1},\alpha<\frac{p}{1},\beta<\frac{p}{1}$$

$$E\left(p\right)=\frac{\alpha}{\left(\alpha+\beta\right)}$$

(2)

$$\frac{\alpha}{1},\beta=\frac{1}{??}$$

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