The W term

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Question - which two variable function W will make the following true:

$$W[\alpha_3, c[1|\alpha_3| + W[\alpha_4, c[1|\alpha_4| = W[\alpha_4 + \alpha_3(1 + c[1|\alpha_4), c[1|(\alpha_4 + \alpha_3(1 + c[1|\alpha_4))|$$

$$W(X) + W(\beta) = W(X + \beta + CX\beta)$$

$$W(x-\frac{1}{2})+W(\beta-\frac{1}{2})=W(x-\frac{1}{2}+\beta-\frac{1}{2}+C(x-\frac{1}{2})(\beta-\frac{1}{2}))$$

$$=W(Cx\beta-\frac{1}{2})$$

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$$W(x) = W(x - \xi)$$
 $W(x - \xi)$

$$W'(A)+W'(\beta)=W'(C\times\beta)$$

$$W(x) = \log(cx)$$
 $W(x) = \log(cx+1)$

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