Erratum to ”A Limit for the $k$-Gamma and $k$-Beta function”

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On page 1614, relation (9) must be:
\[
\lim_{x \to \infty} \left[ \frac{\sqrt{2 \pi}}{2 \pi} B_k(ax + c, bx + d) \right]^{\frac{1}{2}} = \frac{a^\frac{a}{k} \cdot b^\frac{b}{k}}{(a+b)^{\frac{a+b}{k}}}. 
\]

On page 1615, relations (11) and (12) must be $\Gamma(x)$ and $\Gamma(x + 1)$ respectively.

Also, relation (13) is correct but at the previous line must delete the subscript $k$ of Gamma functions on both terms of the fraction. On page 1616, must delete the term $k^{\frac{a}{k} - \frac{b}{k}}$ from the left hand side of the equation (16) and the right hand side of (16) must be written as $\frac{b^\frac{a}{k} e^{-\frac{b}{k}}}{a^\frac{a}{k}}$. The same also holds on page 1617.

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References


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