NEW FORMULA 3.411.4

The original formula is

$$\int_0^\infty \frac{x^{2n-1}\,dx}{e^{px}+1} = (1 - 2^{1-2n})\left(\frac{2\pi}{p}\right)^{2n}\frac{|B_{2n}|}{4n}$$

The change of variables $t = px$ gives the new form (going back to x as the integration variable)

$$\int_0^\infty \frac{x^{2n-1}\,dx}{e^x+1} = (1 - 2^{1-2n})(2\pi)^{2n}\frac{|B_{2n}|}{4n}$$