NEW FORMULA 3.411.2

The original formula is

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

The change of variables t = px and using $|B_{2n}| = (-1)^{n-1}B_{2n}$ gives the new formula (going back to x as the variable of integration)

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