$$f(x) = 2^x \, ln(x-2)$$

simpson 3/8 simple

$$h = \frac{b-a}{3} = \frac{6-3}{3} = 1$$

$$intervalos = \{3,4,5,6\}$$

$$\int_a^b f(x)\,dx = (b-a)\left[\frac{f(x_o) + 3f(x_1) + 3f(x_2) + f(x_3)}{8}\right]$$

$$\int_3^6 2^x ln(x-2)\,dx = (6-3)\left[\frac{f(3) + 3f(4) + 3f(5) + f(6)}{8}\right]$$

$$= 85.29775631$$