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

simpson 3/8 compuesto con 4 intervalos

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

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

$$suintervalos = \left\{\frac{10}{3}, \frac{11}{3}, \frac{13}{3}, \frac{14}{3}, \frac{16}{3}, \frac{17}{3}\right\}$$

$$\int_a^b f(x)\,dx = \frac{b-a}{8n}\left[f(x_0) + 3\sum_{i=1}^{n} f(x_{mi}) + 2\sum_{i=1}^{n-1} f(x_i) + f(x_n)\right]$$

$$\int_3^6 2^x \ln(x-2)\,dx = \frac{6-3}{8(4)}\left[f(3) + 3\left(f\left(\frac{10}{3}\right) + f\left(\frac{11}{3}\right) + f\left(\frac{13}{3}\right) + f\left(\frac{14}{3}\right) + f\left(\frac{16}{3}\right) + f\left(\frac{17}{3}\right)\right) + 2(f(4) + f(5)) + f(6)\right]$$

$$= 95.96193536$$