

Maths of the Day

$$\sum_{n=1}^{\infty} (-1)^{n-1} \frac{H_n^{(2)}}{n^3} = \frac{5}{8} \zeta(2) \zeta(3) - \frac{11}{32} \zeta(5)$$

$$\sum_{n=1}^{\infty} (-1)^{n-1} \frac{H_n^{(3)}}{n^2} = \frac{3}{4} \zeta(2) \zeta(3) - \frac{21}{32} \zeta(5)$$