



$$\int_2^4 f(x) = x + 1 \, dx = \left. \frac{1}{2}x^2 + x \right|_2^4$$

$$\left|_2^4 = \left(\frac{1}{2} * 4^2 + 4 \right) - \left(\frac{1}{2} * 2^2 + 2 \right) = 12 - 4 = 8 \right.$$