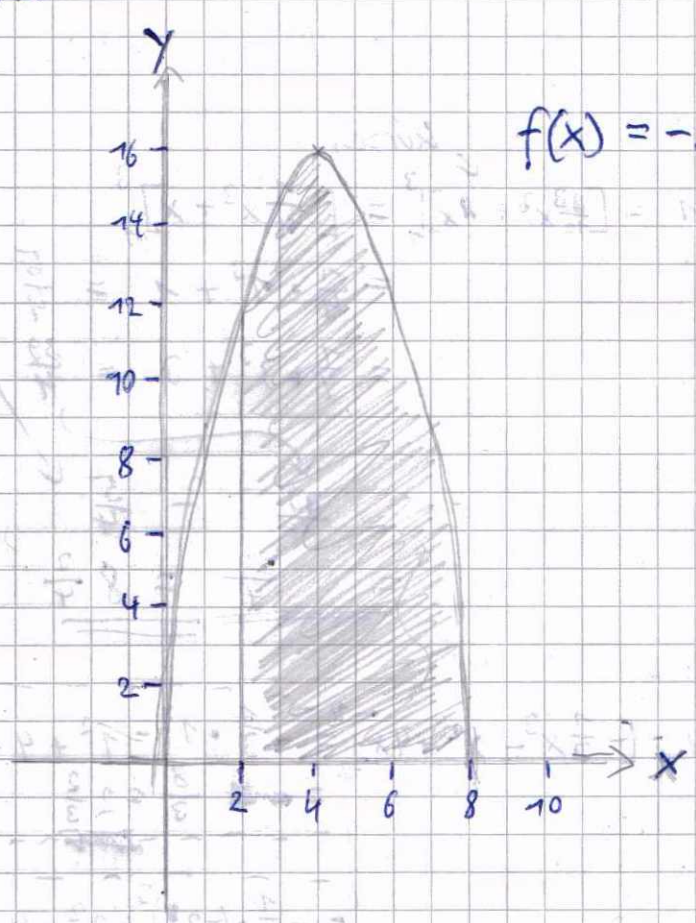
Nr. 2



$f(x) = -x^2 + 8x$

$$\int_2^8 f(x)\,dx = -x^2 + 8x\,dx = -\frac{1}{3}x^3 + \frac{8}{2}x^2$$

$$= \left(-\frac{1}{3}\cdot 8^3 + \frac{8}{2}\cdot 8^2\right) - \left(-\frac{1}{3}\cdot 2^3 + \frac{8}{2}\cdot 2^2\right)$$

$$= 85{,}33 - 13{,}33$$

$$= 72$$