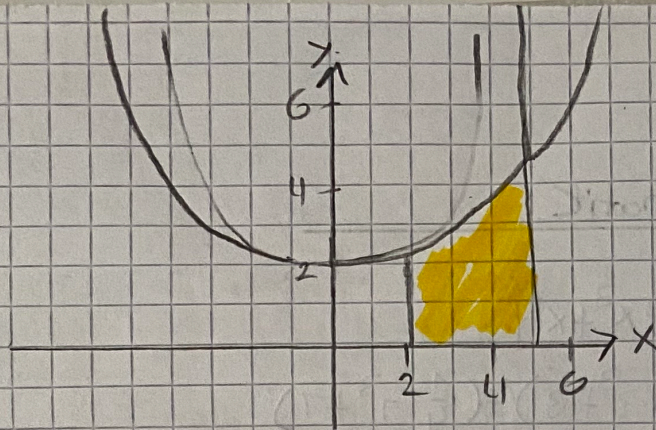


b.)

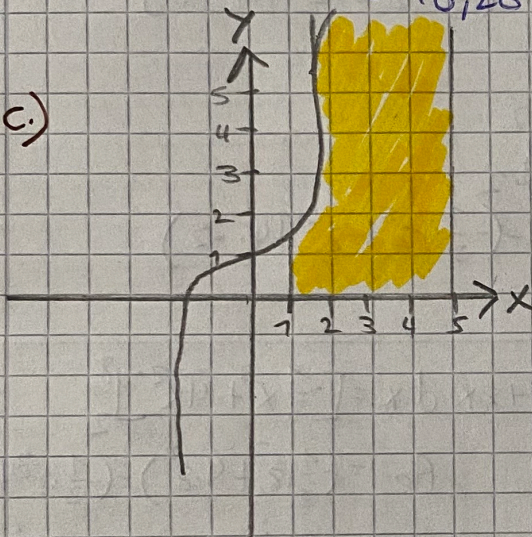


$$\int_2^5 0.2x^2 + 2 \, dx = \left[\frac{0.2}{3} x^3 + 2x \right]_2^5$$

$$A_0 = \left(\frac{0.2}{3} \cdot 5^3 + 2 \cdot 5 \right) - \left(\frac{0.2}{3} \cdot 2^3 + 2 \cdot 2 \right)$$

$$= 16.26 \text{ FE}$$

c.)



$$\int_1^5 x^3 + 7 \, dx = \left[\frac{1}{4} x^4 + 7x \right]_1^5$$

$$A_0 = \left(\frac{1}{4} \cdot 5^4 + 7 \cdot 5 \right) - \left(\frac{1}{4} \cdot 1^4 + 7 \cdot 1 \right)$$

$$= 160 \text{ FE}$$