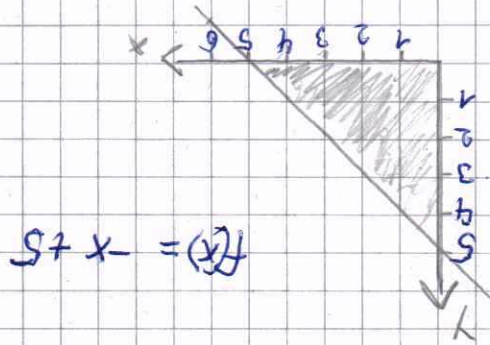
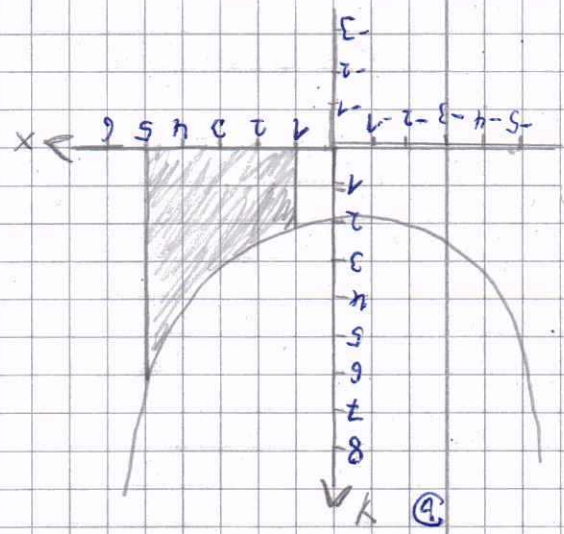


Nr. 3

③ $A = \frac{1}{2} \cdot 4 \cdot 4 = 8$

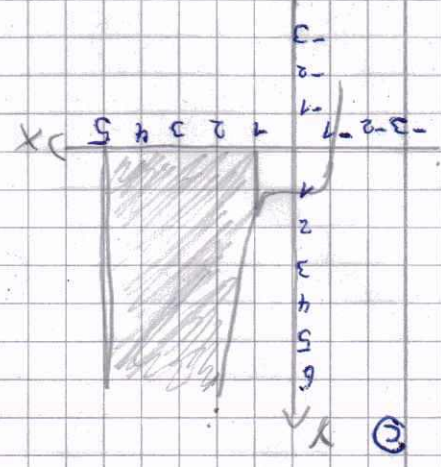


$f(x) = -x + 5$



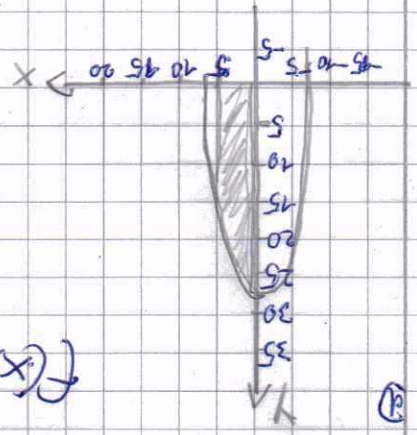
$f(x) = 0.2x^2 + 2$

$$\int_0^4 f(x) dx = \int_0^4 [0.2x^2 + 2] dx = \left[\frac{0.2}{3} x^3 + 2x \right]_0^4 = \left(\frac{0.2}{3} \cdot 5^3 + 2 \cdot 5 \right) - \left(\frac{0.2}{3} \cdot 0^3 + 2 \cdot 0 \right) = 16.66$$



$f(x) = x^3 + 1$

$$\int_0^5 f(x) dx = \int_0^5 [x^3 + 1] dx = \left[\frac{1}{4} x^4 + x \right]_0^5 = \left(\frac{1}{4} \cdot 5^4 + 5 \right) - \left(\frac{1}{4} \cdot 0^4 + 0 \right) = 160$$



$f(x) = -\frac{2}{3} x^2 + 27$

$$\int_0^{27} f(x) dx = \int_0^{27} \left[-\frac{2}{3} x^2 + 27 \right] dx = \left[-\frac{2}{9} x^3 + 27x \right]_0^{27} = \left(-\frac{2}{9} \cdot 27^3 + 27 \cdot 27 \right) - \left(-\frac{2}{9} \cdot 0^3 + 27 \cdot 0 \right) = 139$$

$$= \left(-\frac{2}{9} \cdot 27^3 + 27 \cdot 27 \right) - \left(-\frac{2}{9} \cdot 0^3 + 27 \cdot 0 \right)$$

$= 139$