

$$\text{pour } x_1 = 0 \Rightarrow x_2 = \frac{c}{x_1 + 1} - 2 = c - 2 > 0 \quad \text{car } c > 2$$

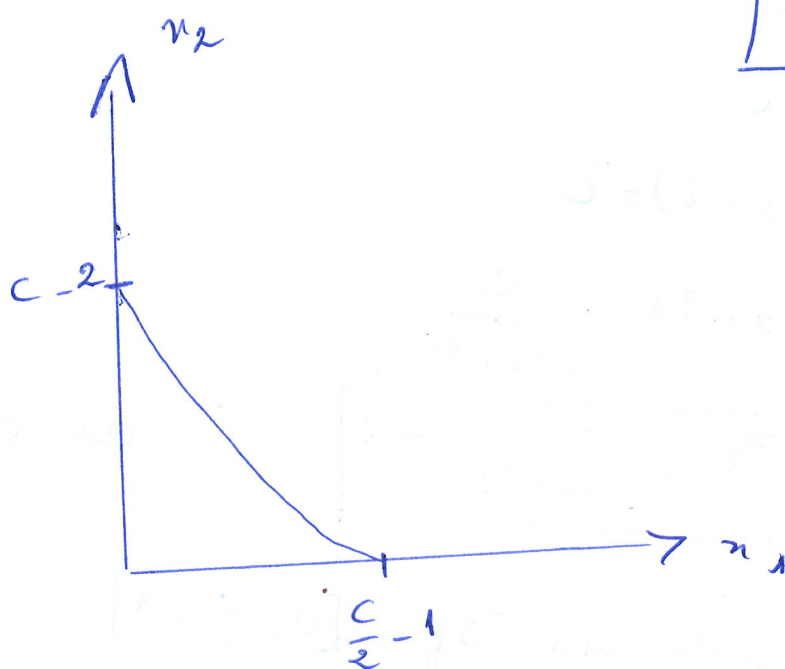
$$\text{pour } f(x_1) = 0 \Rightarrow \frac{c}{x_1 + 1} - 2 = 0 \Rightarrow \frac{c}{x_1 + 1} = 2$$

$$c = 2(x_1 + 1)$$

$$c = 2x_1 + 2$$

$$2x_1 = c - 2$$

$$\boxed{x_1 = \frac{c}{2} - 1}$$



② a - Programme du Consommateur

$$(P) \begin{cases} \text{Max } V(x_1, x_2) = (x_1 + 1)(x_2 + 2) \\ x_1 > 0, \quad x_2 > 0 \\ x_1 + x_2 \leq R \end{cases}$$