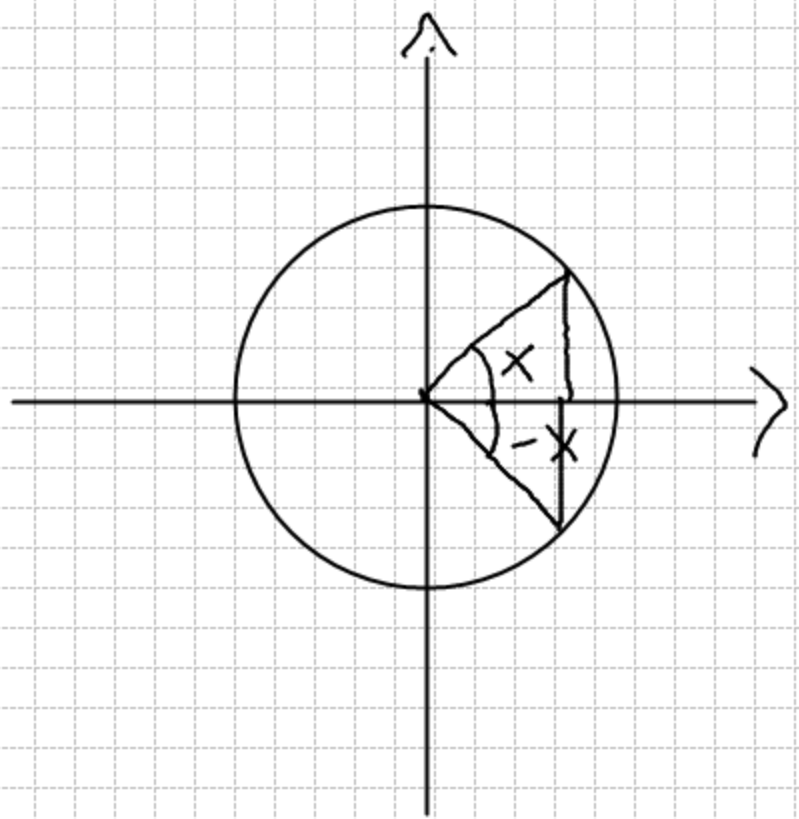


$y = \cos x$

| x | y |
|----------|----|
| 0 | 1 |
| $\pi/2$ | 0 |
| π | -1 |
| $3/2\pi$ | 0 |

$f(x) = \cos x$
 $f(-x) = \cos(-x)$



$$n^{\circ} = 36 \quad \text{PAG. 30}$$

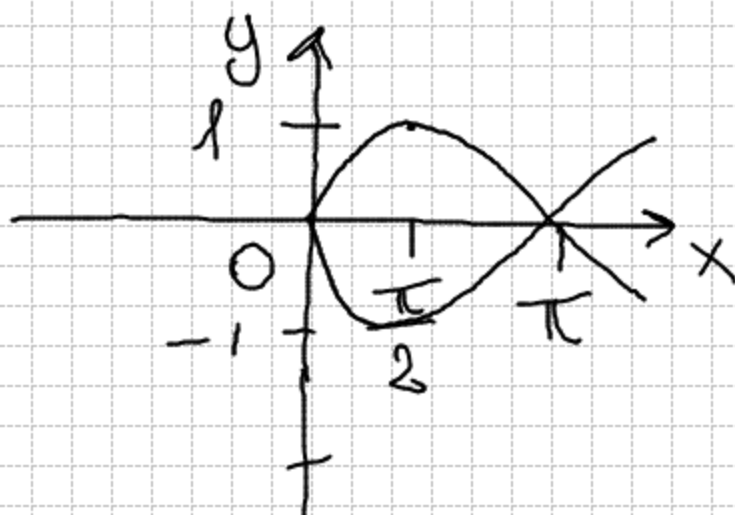
$$f(x) = 1 - 3 \cos x \quad x \in \mathbb{R}$$

$$\begin{aligned} -1 &\leq \cos x \leq 1 \\ -1 &\leq -\cos x \leq 1 \\ -3 &\leq -3 \cos x \leq 3 \\ -2 &\leq 1 - 3 \cos x \leq 4 \end{aligned}$$

$$f(x) = -3 \sin x \quad x \in [0; \pi]$$

- $0 \leq \sin x \leq 1$
- $-1 \leq -\sin x \leq 0$

$$-3 \leq -3 \sin x \leq 0$$



P. 30 es. 37

$$f(x) = 1 - \sin x \quad x \in [0; \pi]$$

$$-1 \leq -\sin x \leq 0$$

$$0 \leq 1 - \sin x \leq 1$$

40) $f(x) = 3 - \frac{1}{2} \sin x \quad x \in \left[-\frac{\pi}{6}; \frac{\pi}{6}\right]$

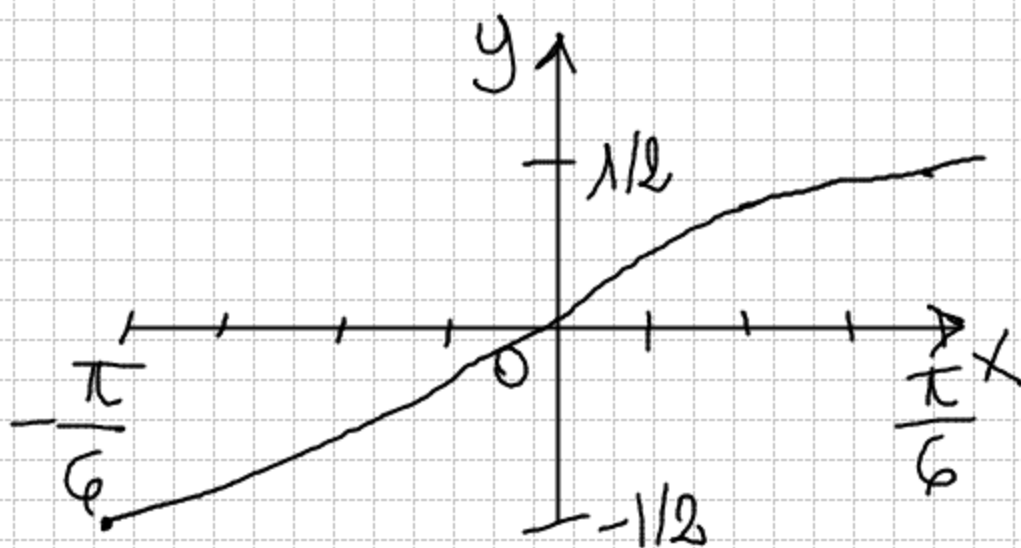
$$-\frac{1}{2} \leq \sin x \leq \frac{1}{2}$$

$$-\frac{1}{2} \leq -\sin x \leq \frac{1}{2}$$

$$-\frac{1}{4} \leq -\frac{1}{2} \sin x \leq \frac{1}{4}$$

$$3 - \frac{1}{4} \leq 3 - \frac{1}{2} \sin x \leq 3 + \frac{1}{4}$$

$$\frac{11}{4} \leq 3 - \frac{1}{2} \sin x \leq \frac{13}{4}$$



N° 173

$$\text{seux} = \frac{k}{k-1}$$

$$k \neq 1$$

$$-1 \leq \frac{k}{k-1} \leq 1$$

$$\frac{k}{k-1} \geq -1$$

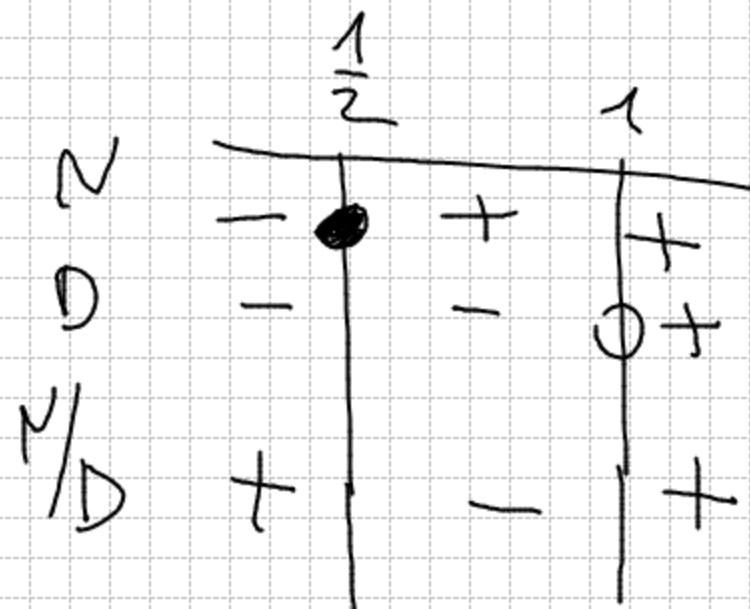
$$\frac{k+k-1}{k-1} \geq 0$$

$$\frac{2k-1}{k-1} \geq 0$$

$$N) 2k-1 \geq 0 \quad k \geq \frac{1}{2}$$

$$D) k-1 > 0 \quad k > 1$$

$$S_1: k \leq \frac{1}{2} \cup k > 1$$



$$\frac{k}{k-1} \leq 1$$

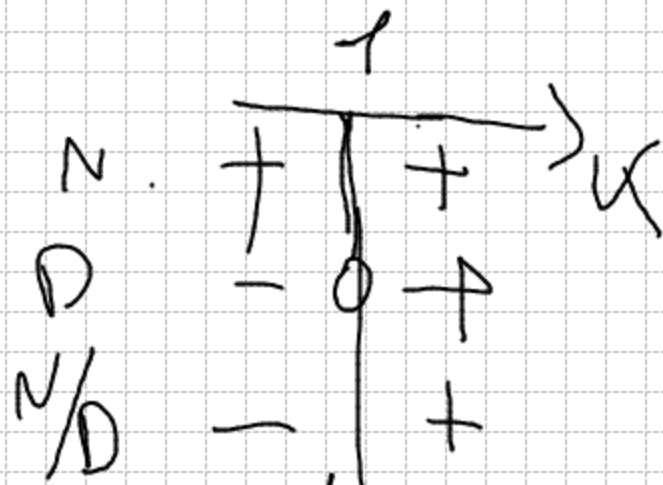
$$\frac{k-k+1}{k-1} \leq 0$$

$$\frac{1}{k-1} \leq 0$$

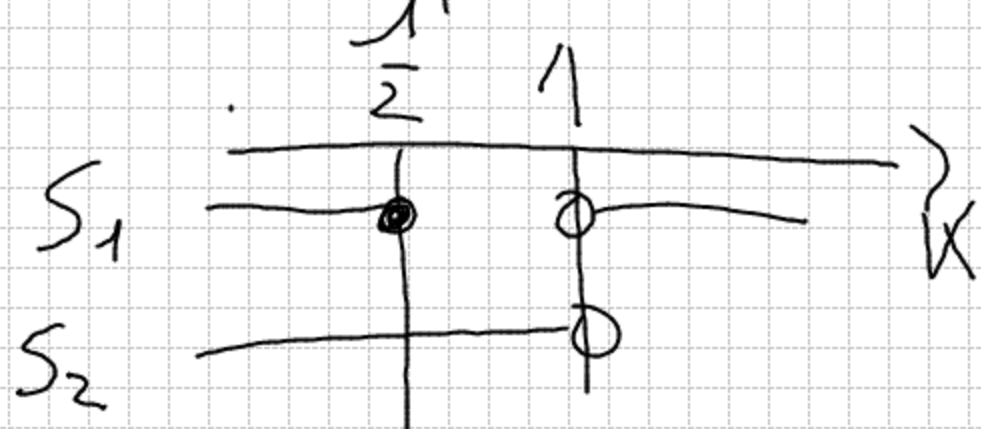
$$N) 1 \geq 0$$

$$D) k-1 > 0 \quad k > 1$$

$$S_2: k < 1$$



$$\left\{ \begin{array}{l} k \leq \frac{1}{2} \cup k > 1 \\ k < 1 \end{array} \right.$$



$$S: k < \frac{1}{2}$$