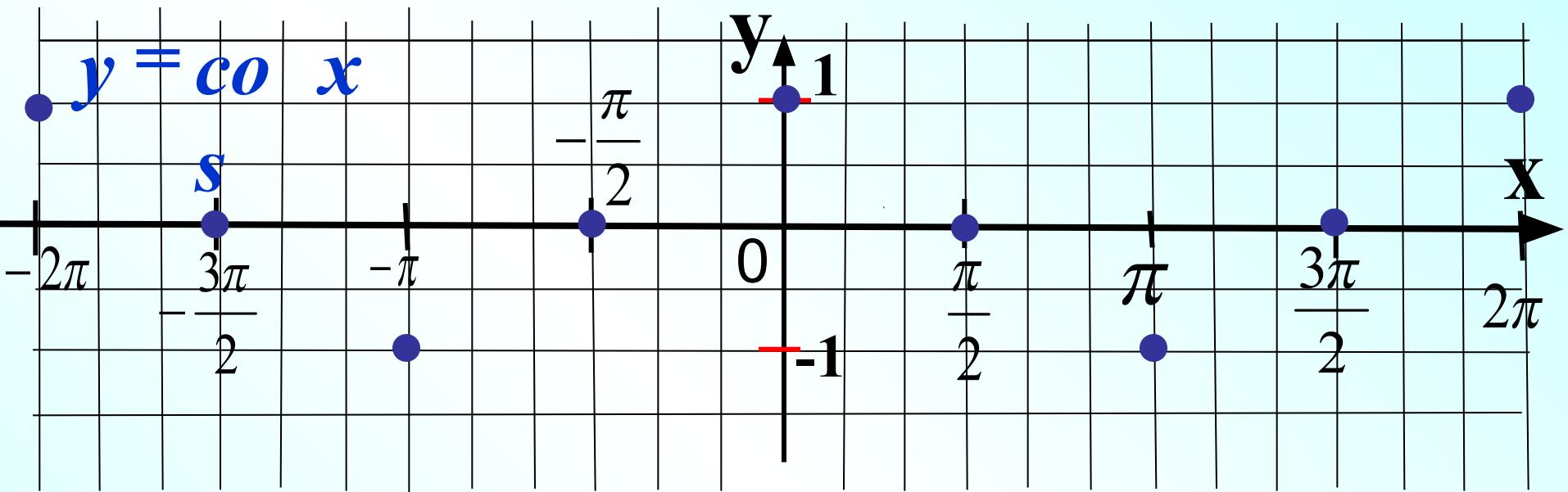
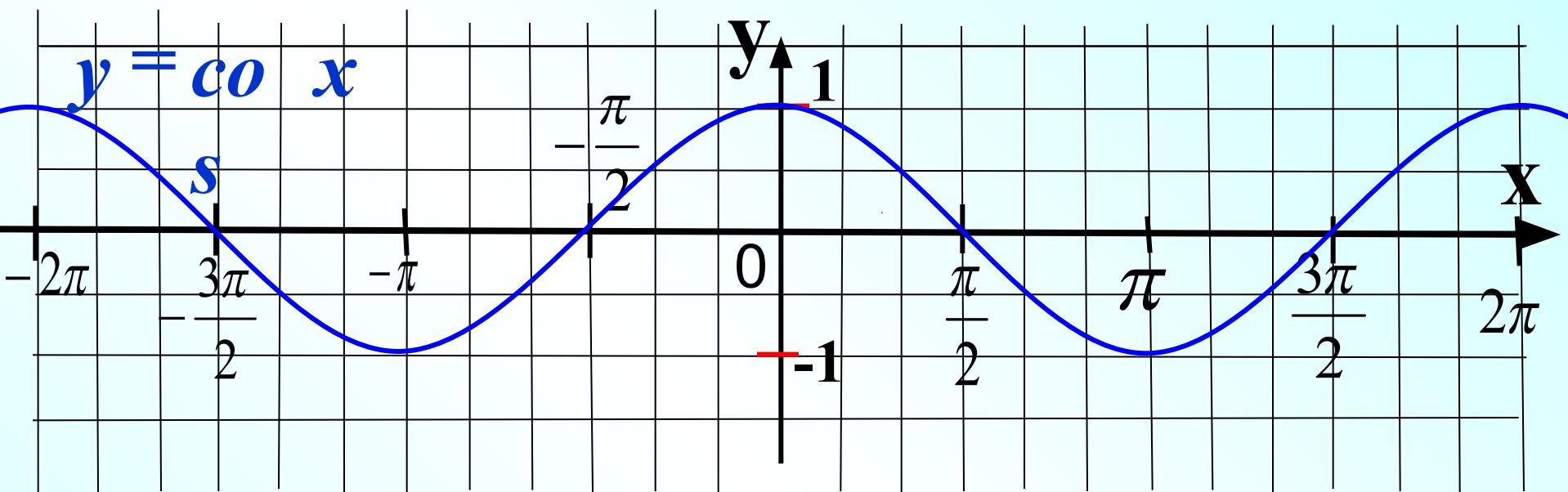
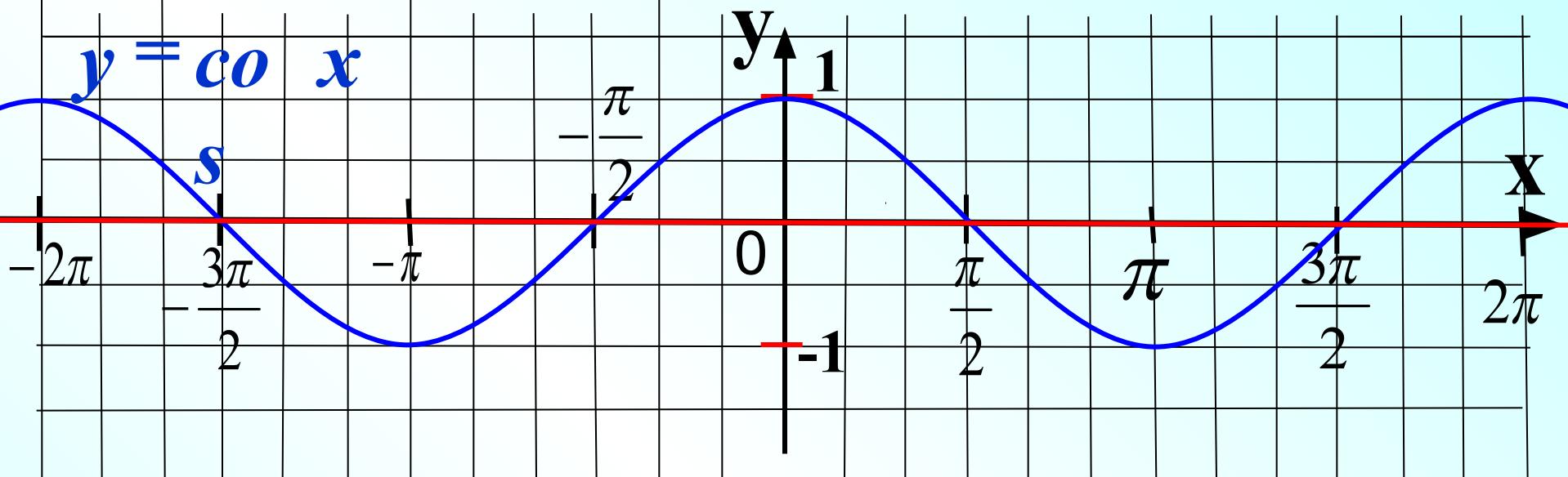


*Функция $y=\cos x$,
её свойства и график*



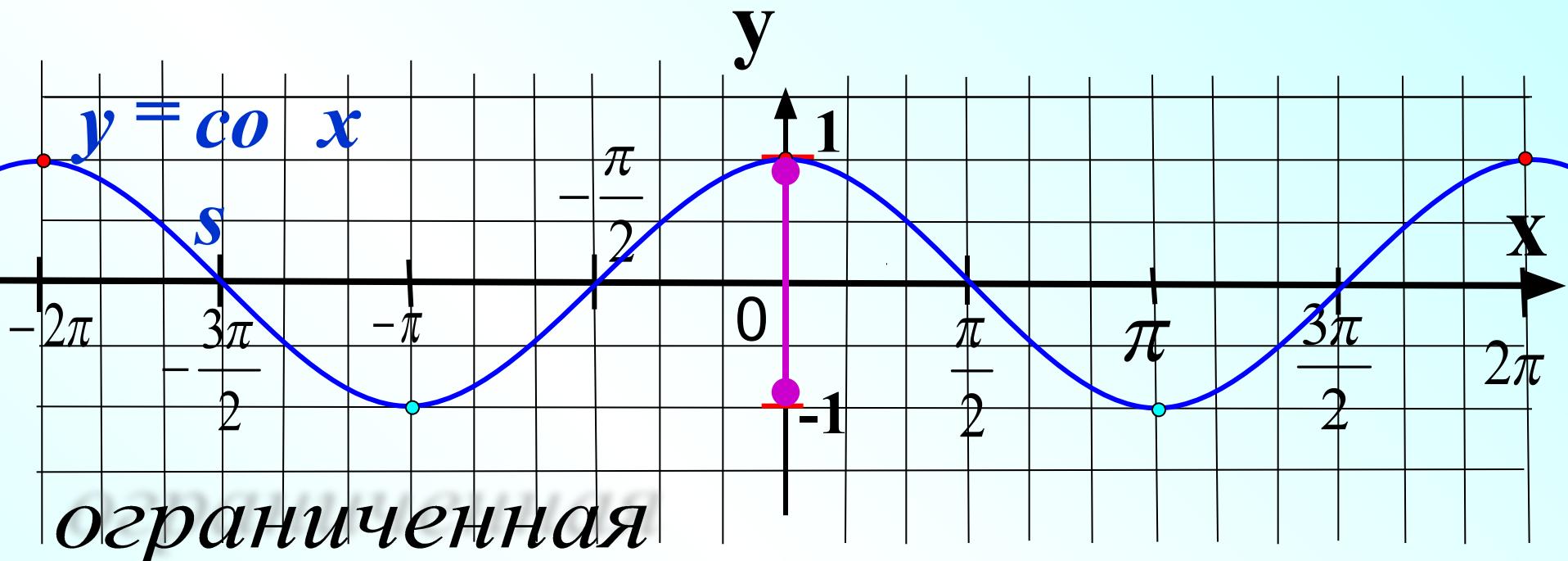




$$D(y) : x \in R$$

$\cos(-x) = \cos x$ четная

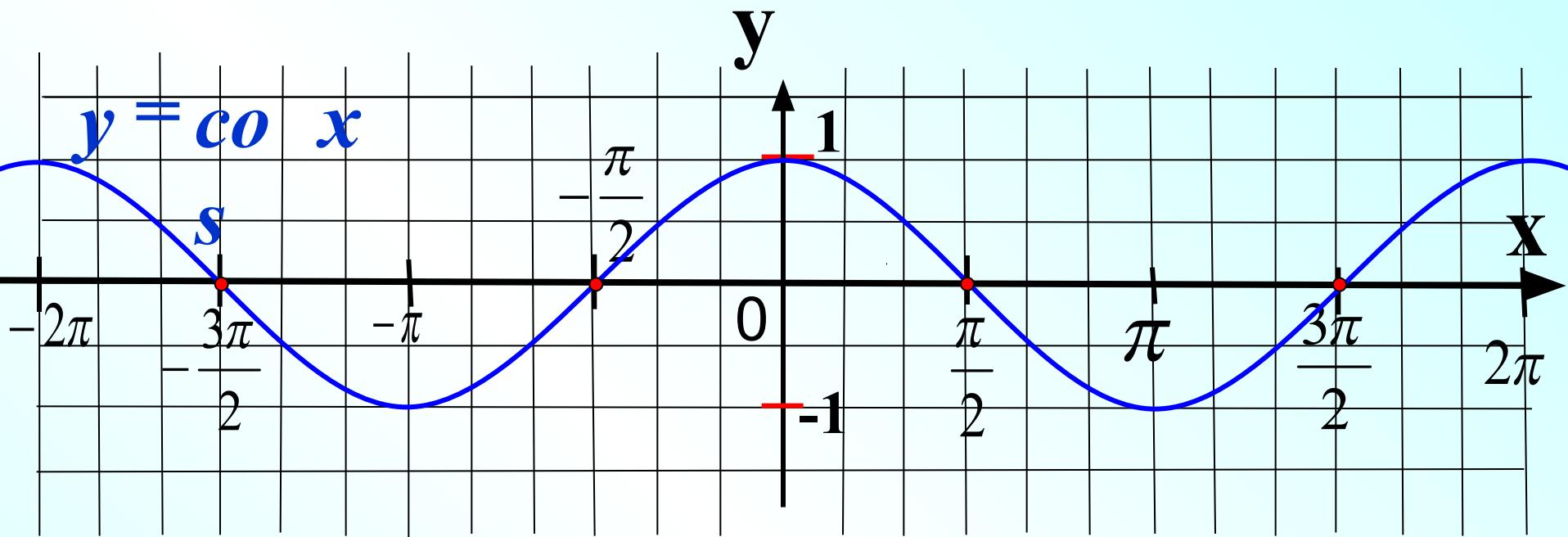
периодическая



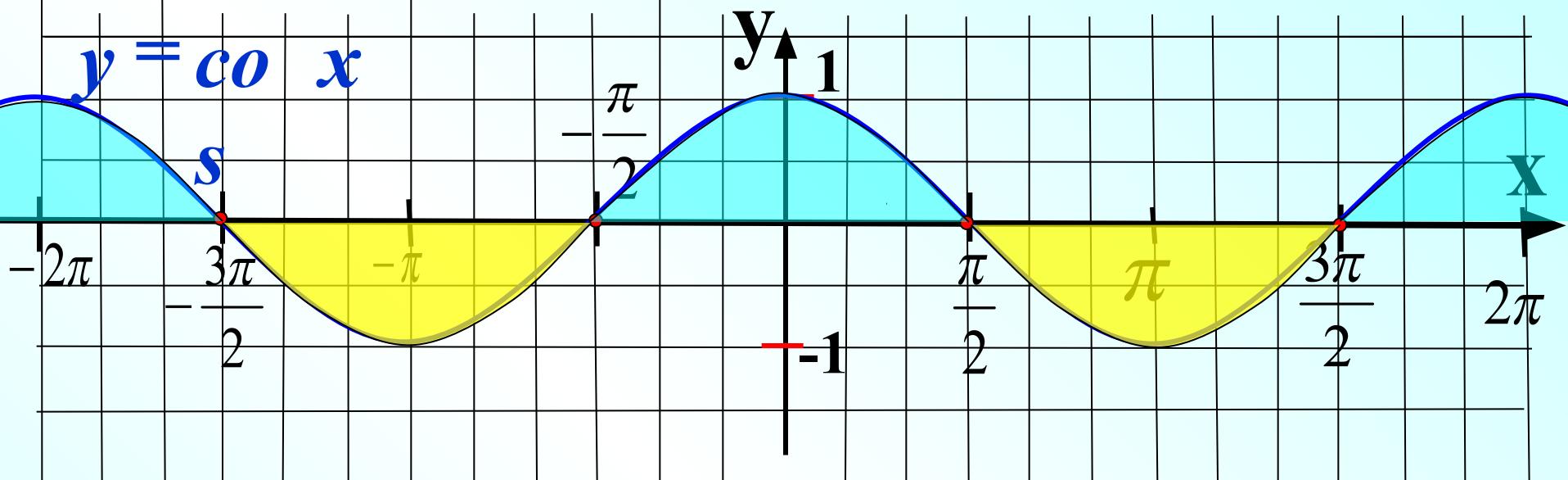
$$y = 1 \quad x = 2\pi k, \quad k \in \mathbb{Z}$$

$$y = -1 \quad x = \pi + 2\pi k, \quad k \in \mathbb{Z}$$

$$E(y) = [-1; +1]$$

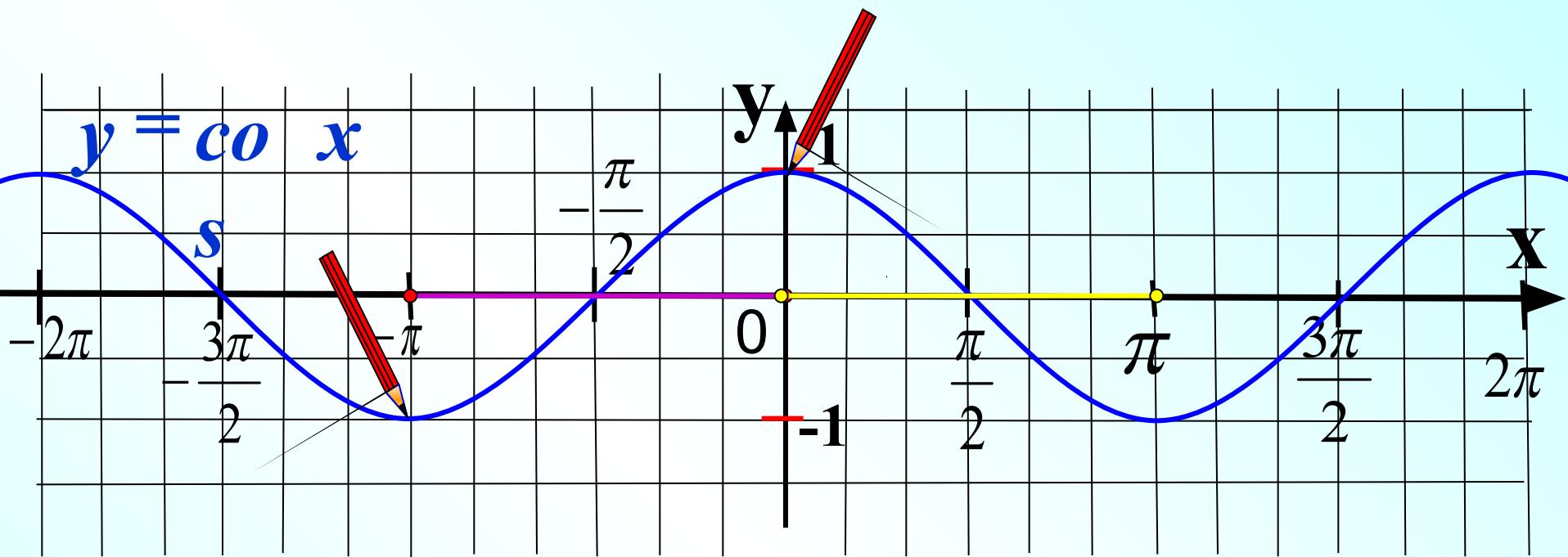


$$y = 0 \quad x = \frac{\pi}{2} + \pi k, \quad k \in \mathbb{Z}$$



$$y > 0 \quad x \in \left(-\frac{\pi}{2} + 2\pi k; \frac{\pi}{2} + 2\pi k \right)$$

$$y < 0 \quad x \in \left(\frac{\pi}{2} + 2\pi k; \frac{3\pi}{2} + 2\pi k \right)$$



Функция возрастает

$$\text{на } [-\pi + 2\pi k; 2\pi k]$$

Функция убывает

$$\text{на } [2\pi k; \pi + 2\pi k]$$

№712 (1, 4)

