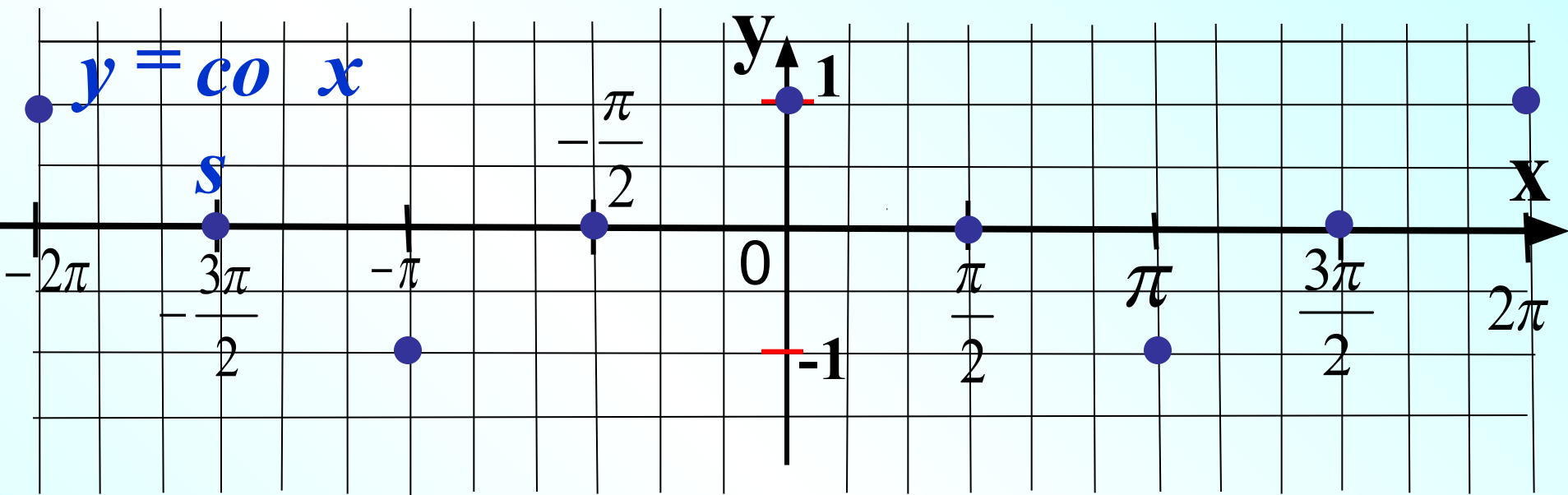
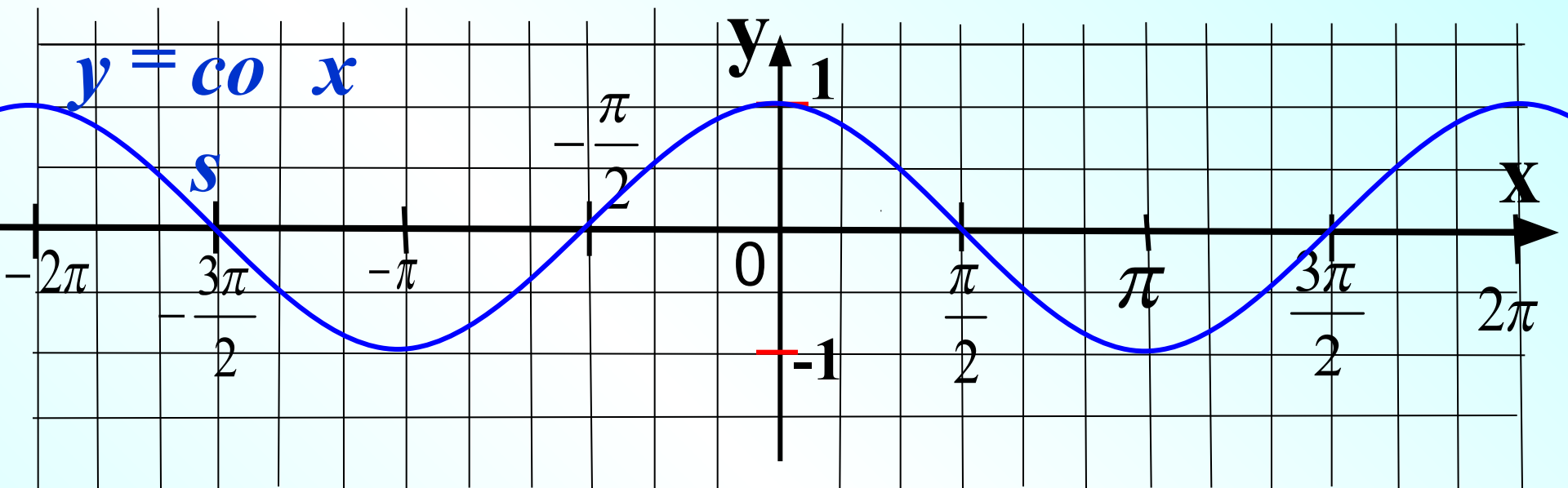
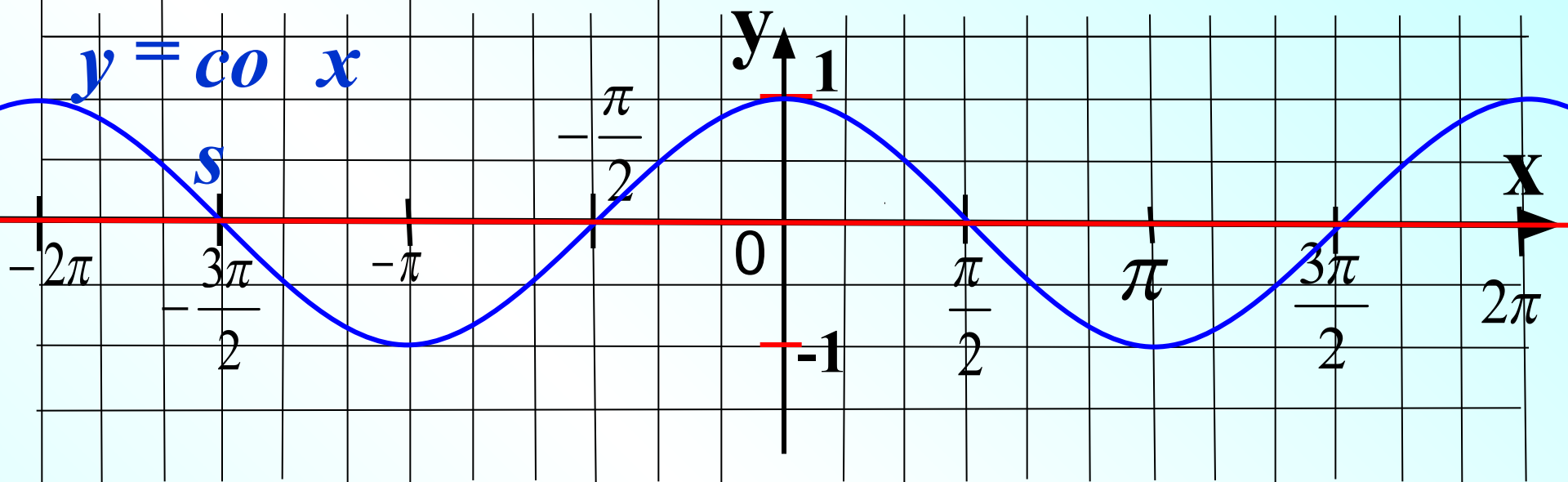


Функция $y = \cos x$,

её свойства и график



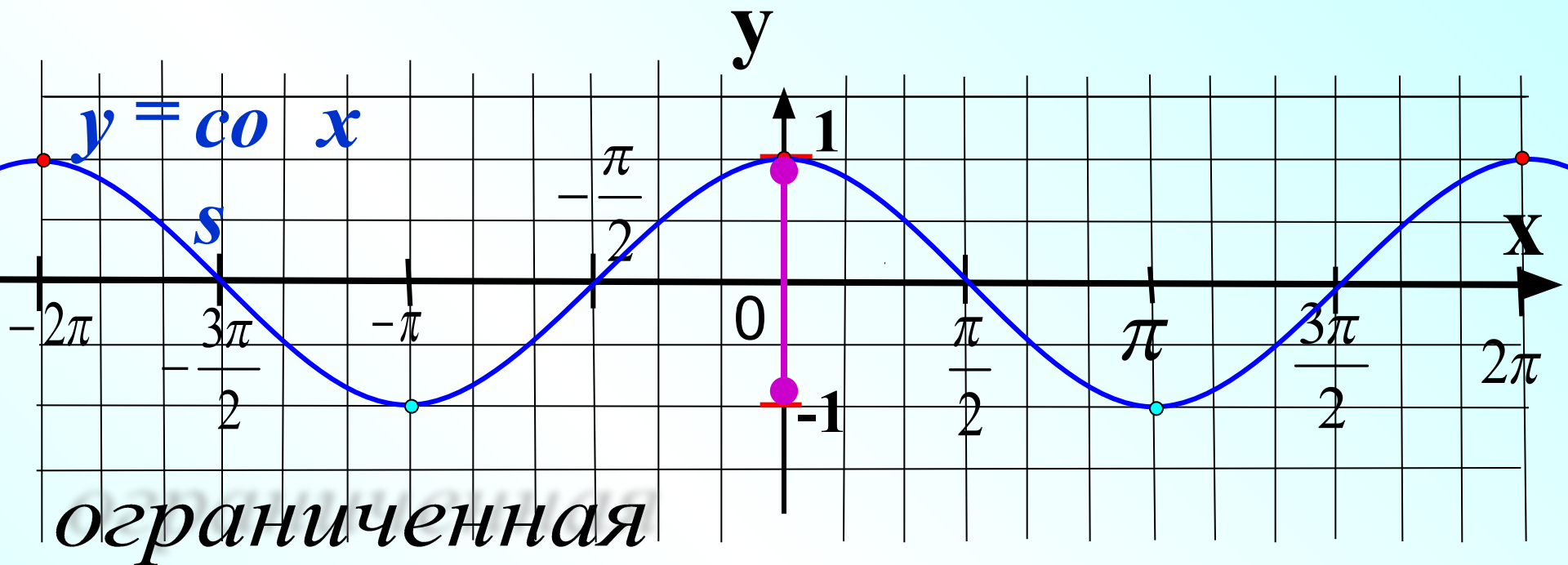




$$D(y): x \in \mathbb{R}$$

$$\cos(-x) = \cos x \quad \text{четная}$$

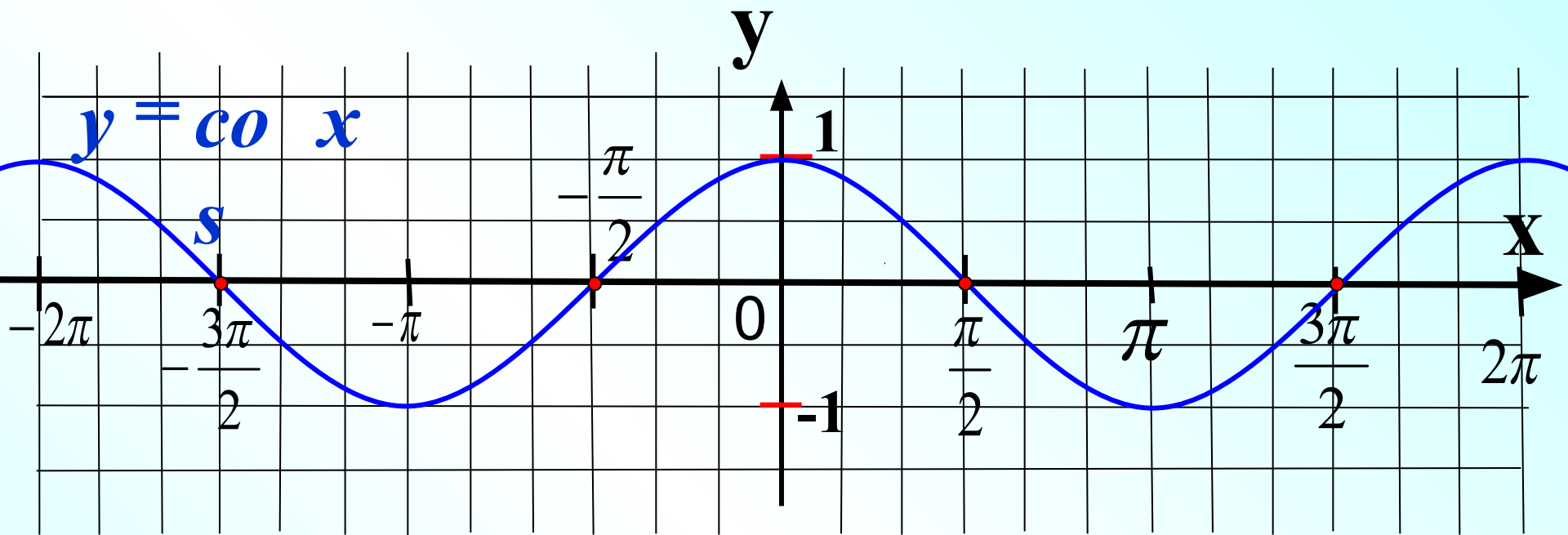
периодическая



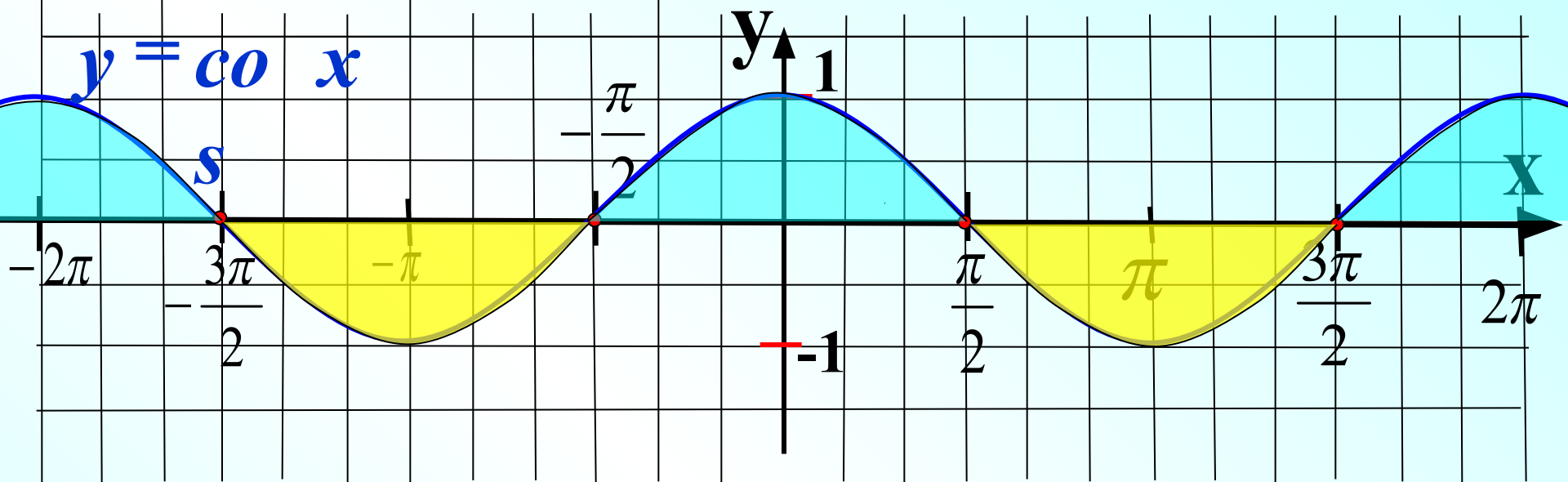
$$y = 1 \quad x = 2\pi k, \quad k \in \mathbb{Z}$$

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

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

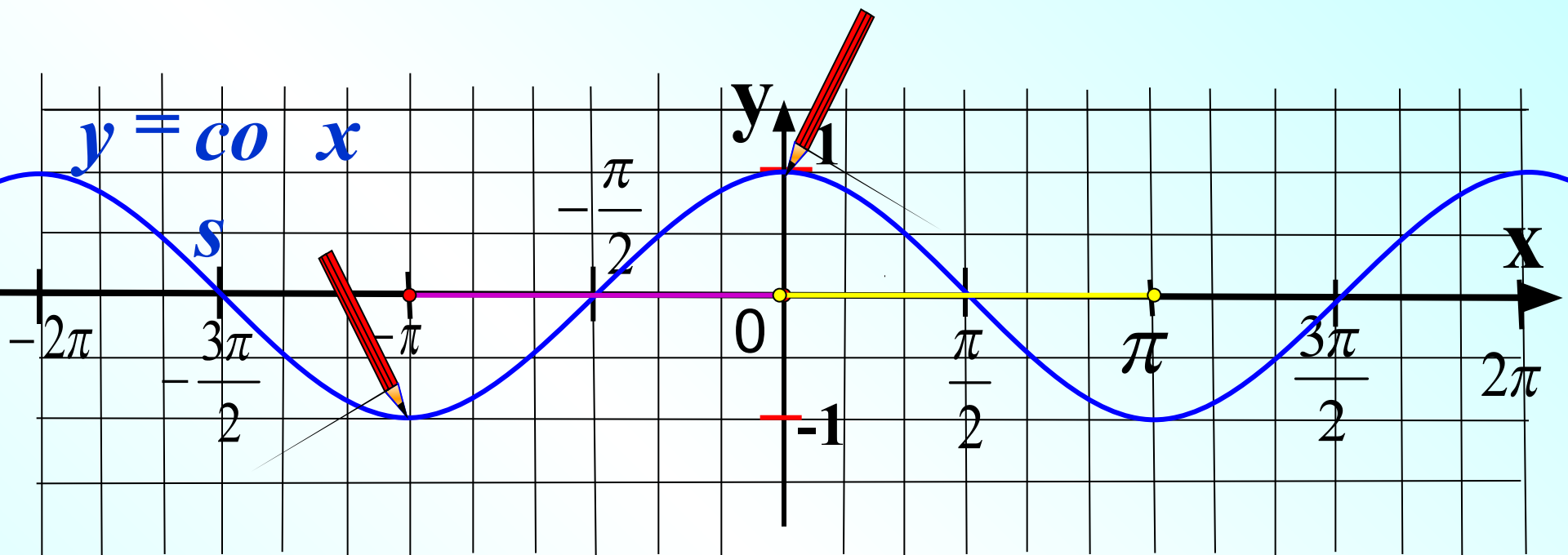


$$y = 0 \quad x = \frac{\pi}{2} + \pi k, \quad k \in \mathbb{Z}$$



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

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



Функция возрастает

на $[-\pi + 2\pi k; 2\pi k]$

Функция убывает

на $[2\pi k; \pi + 2\pi k]$

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