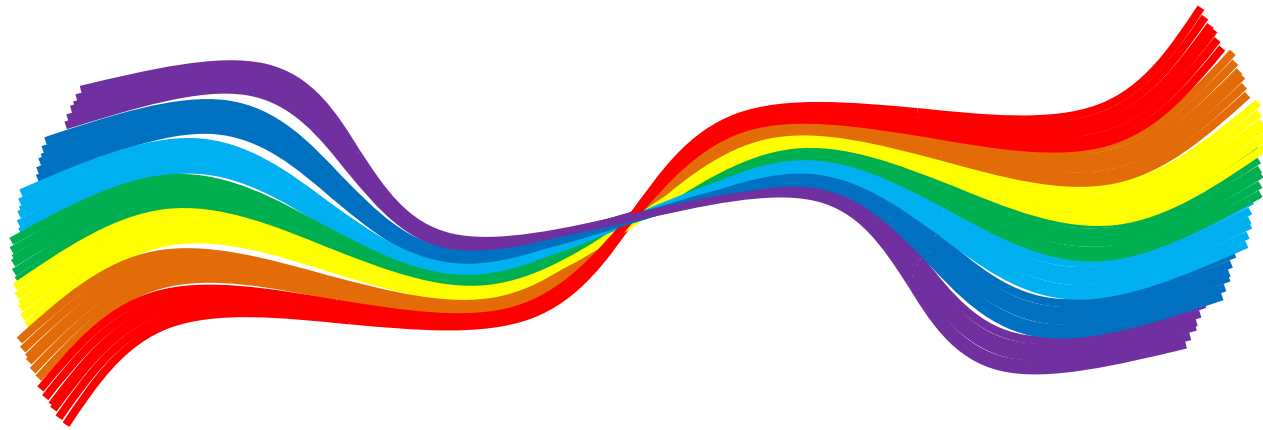
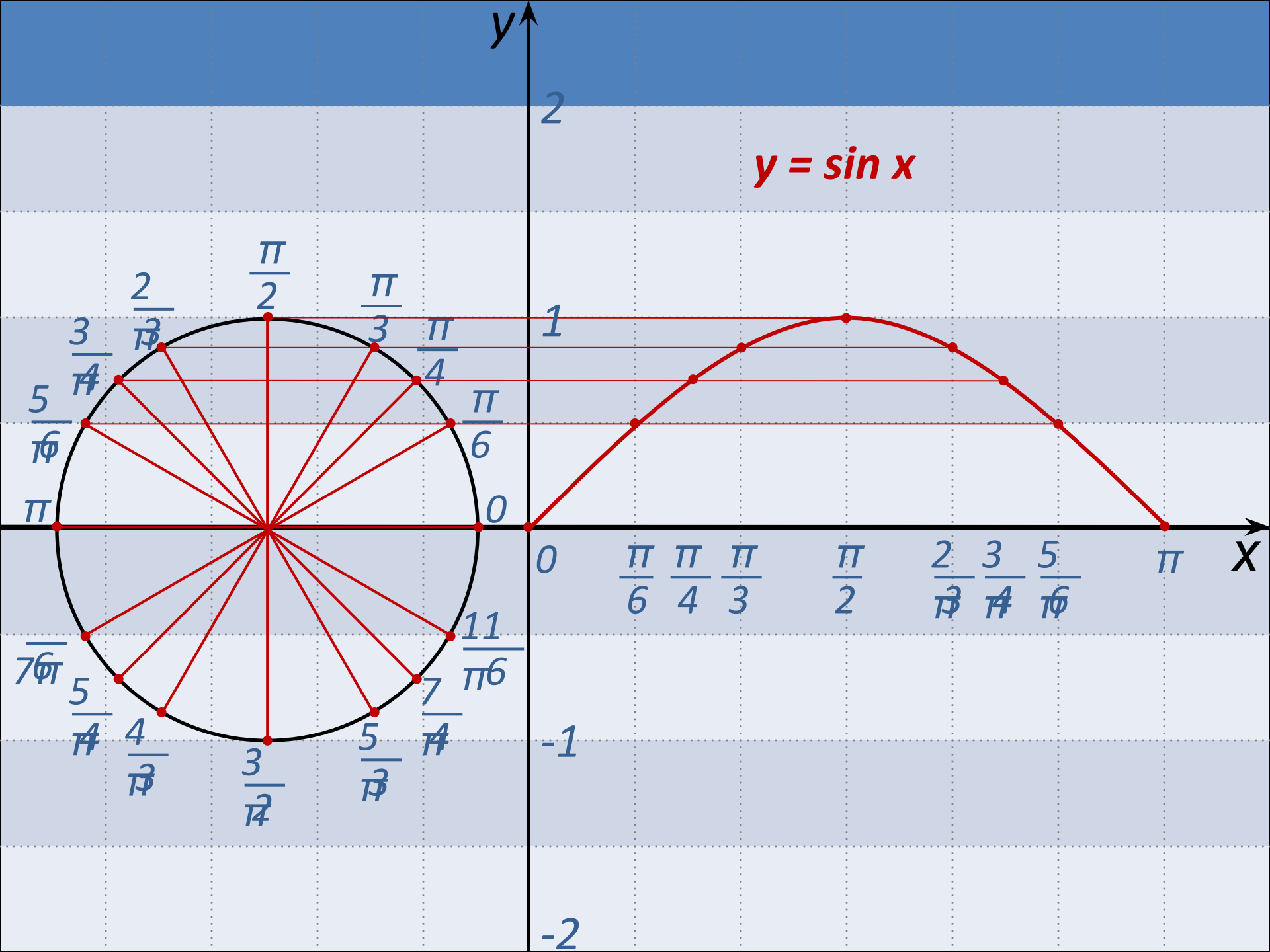
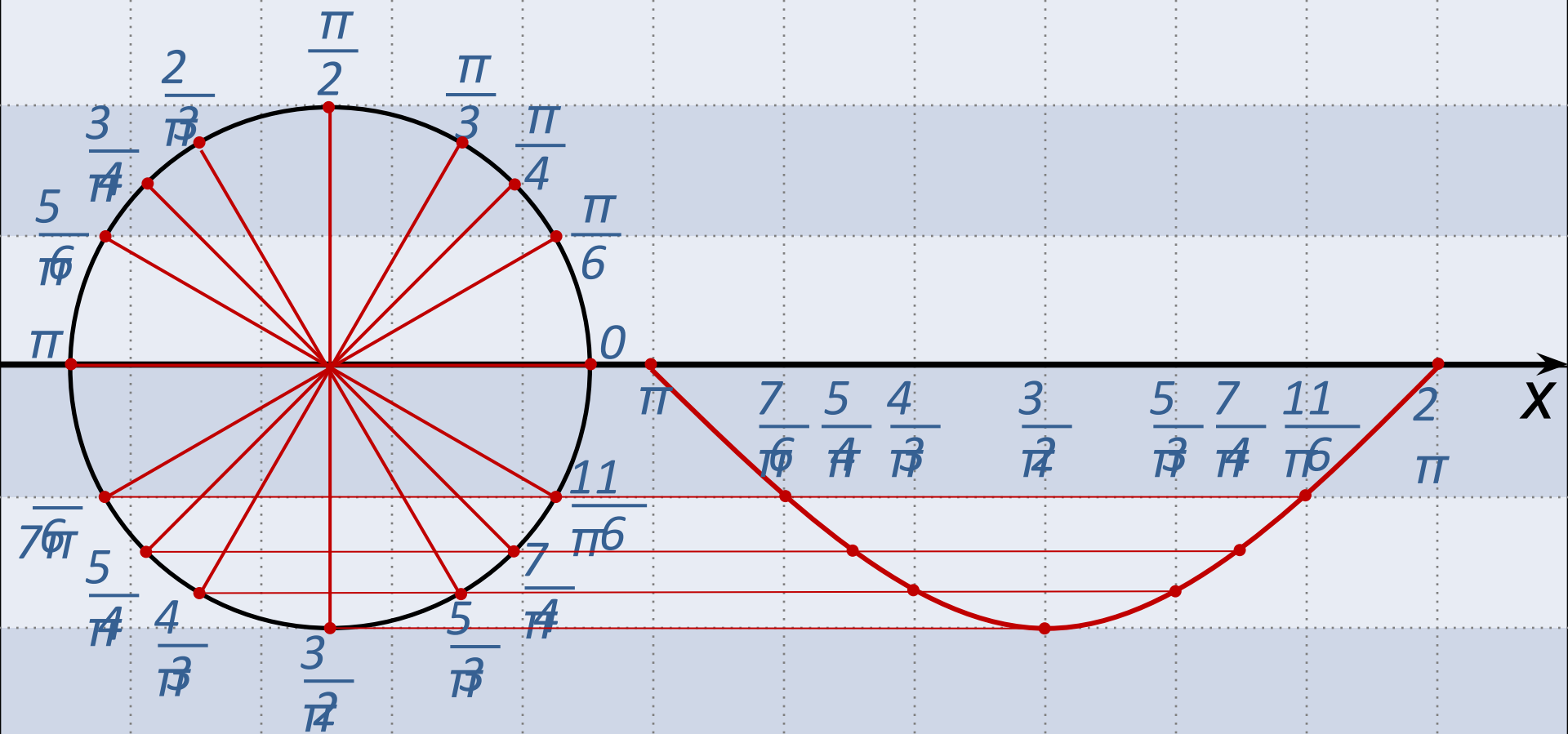


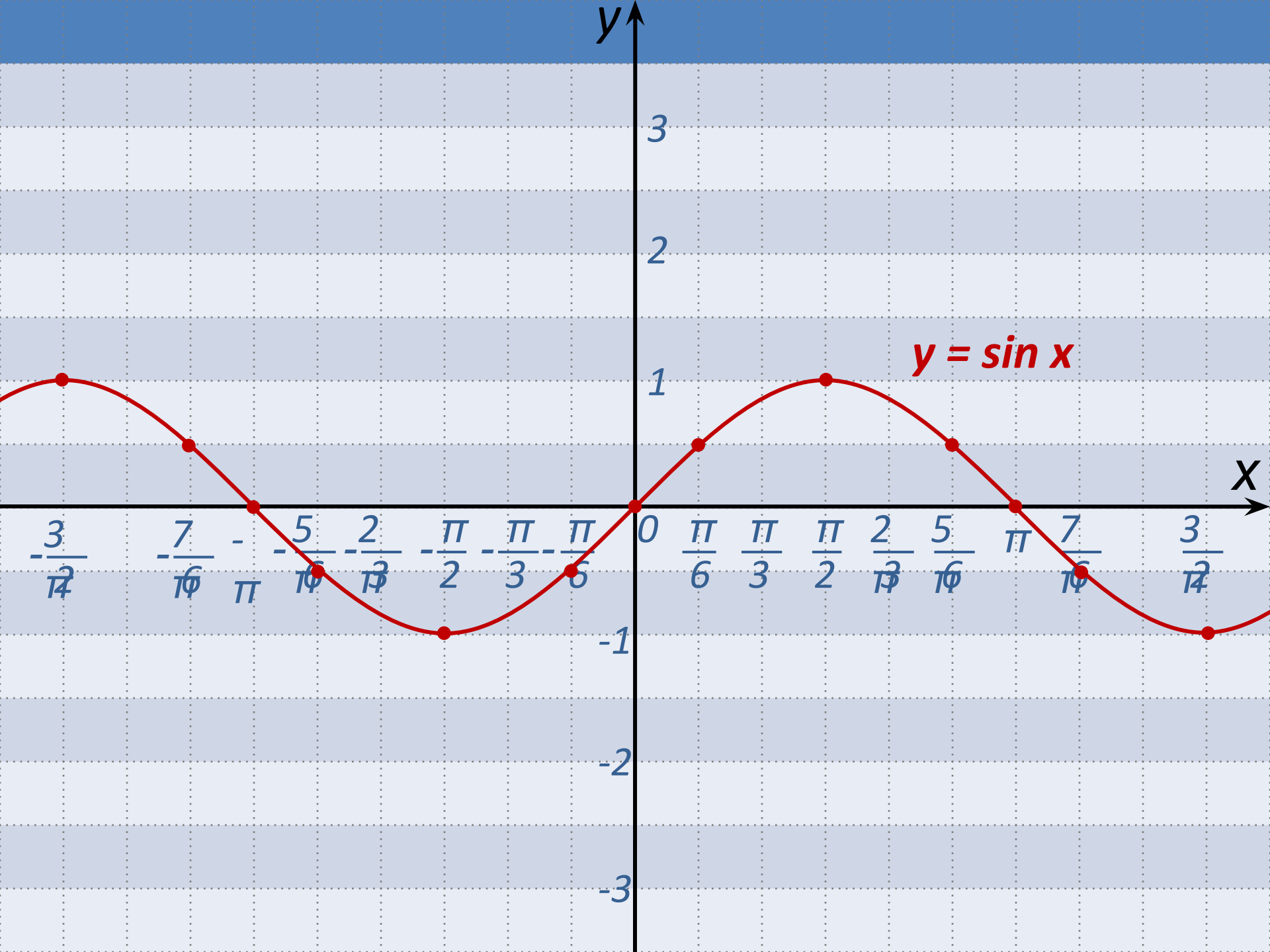
Построение графиков тригонометрических функций

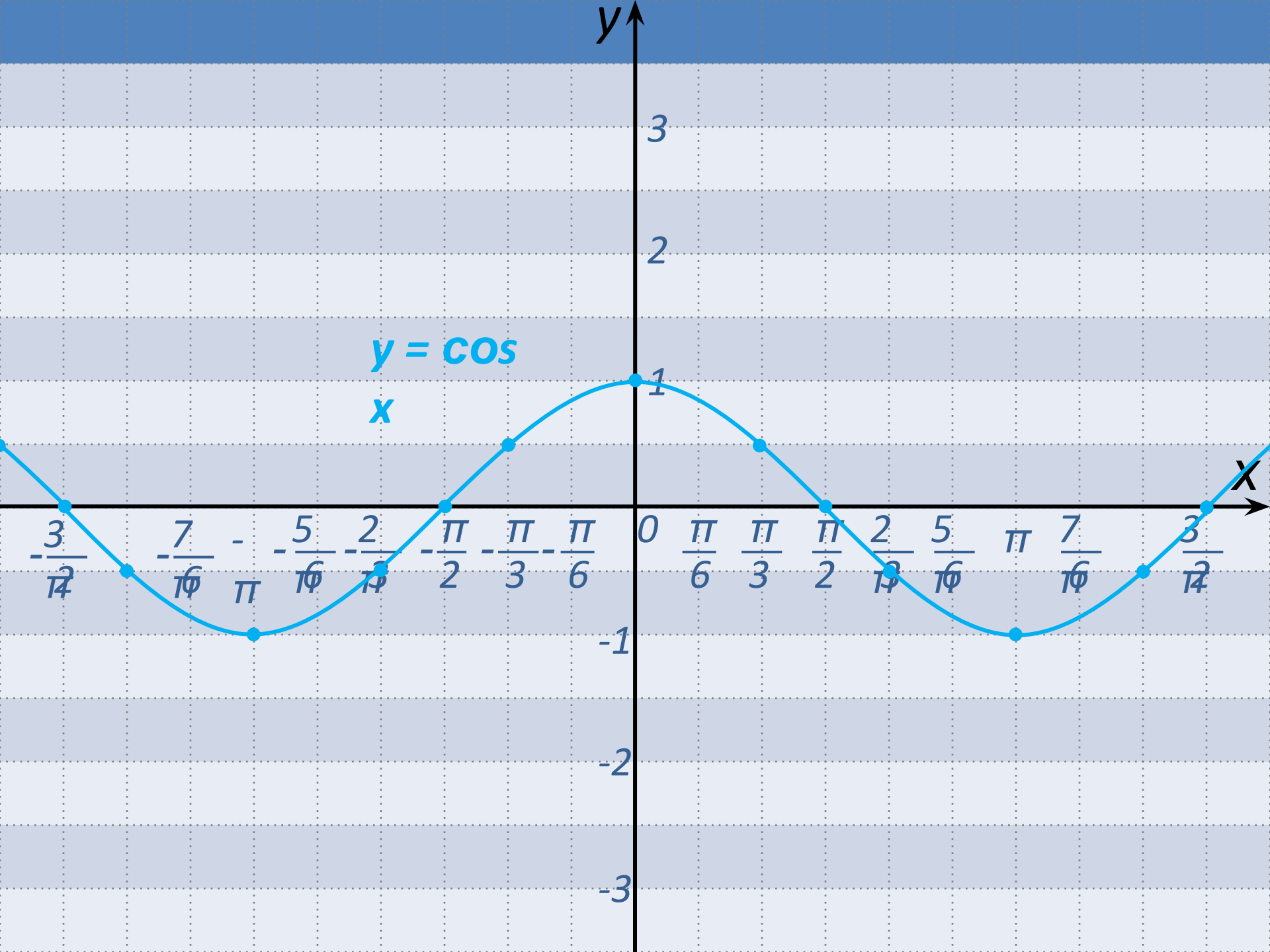


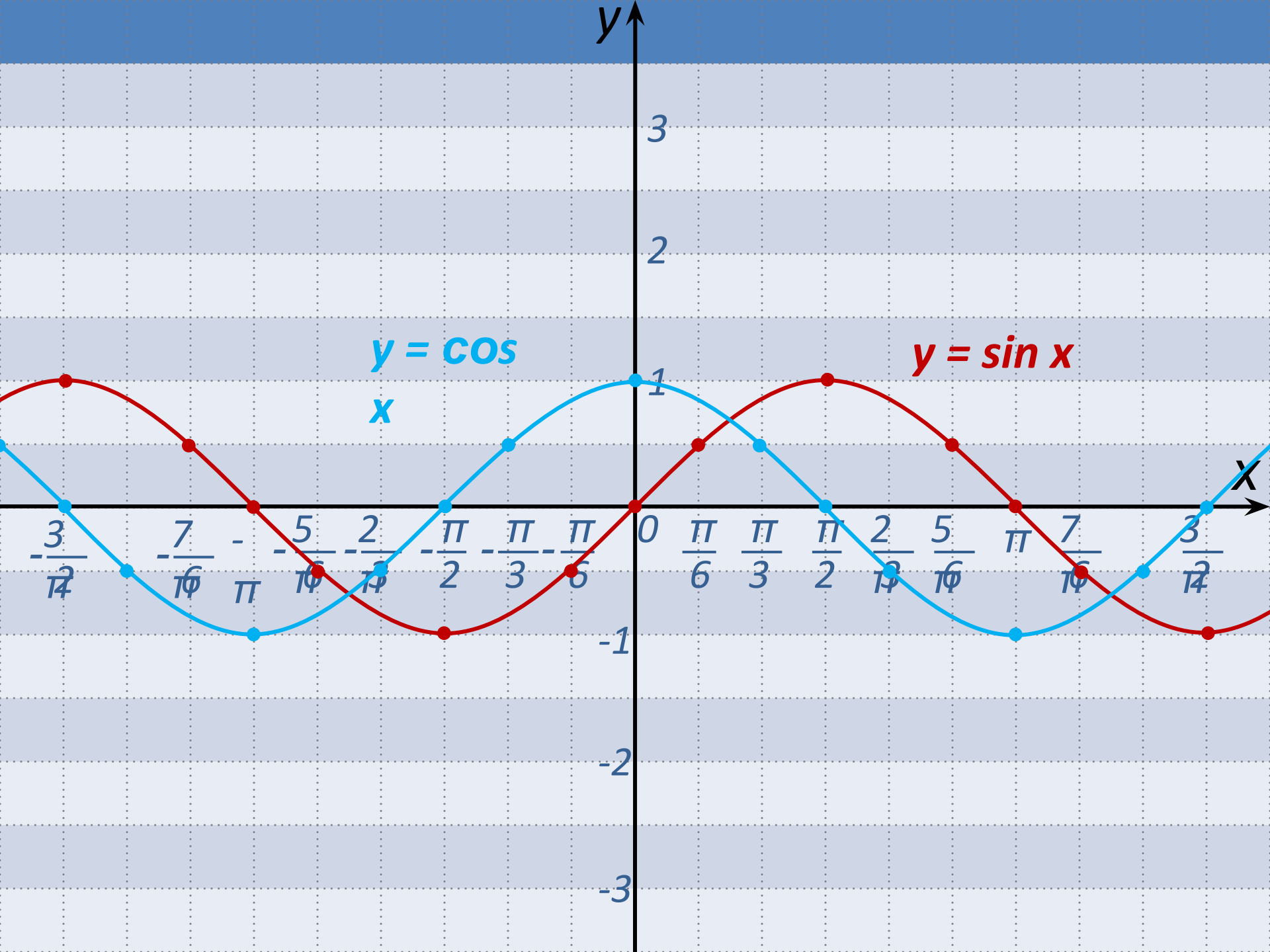


$$y = \sin x$$





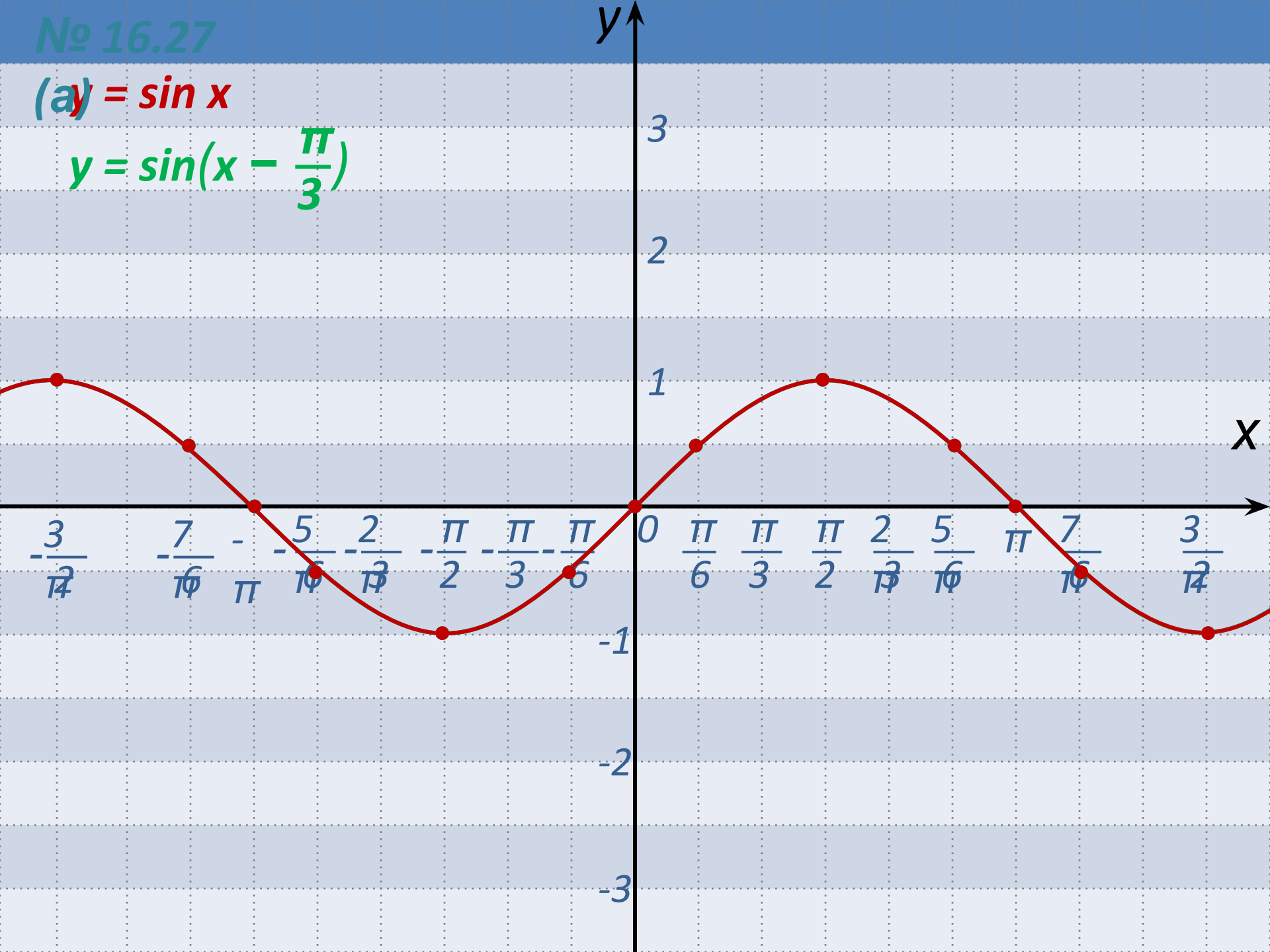




№ 16.27

$(a) = \sin x$

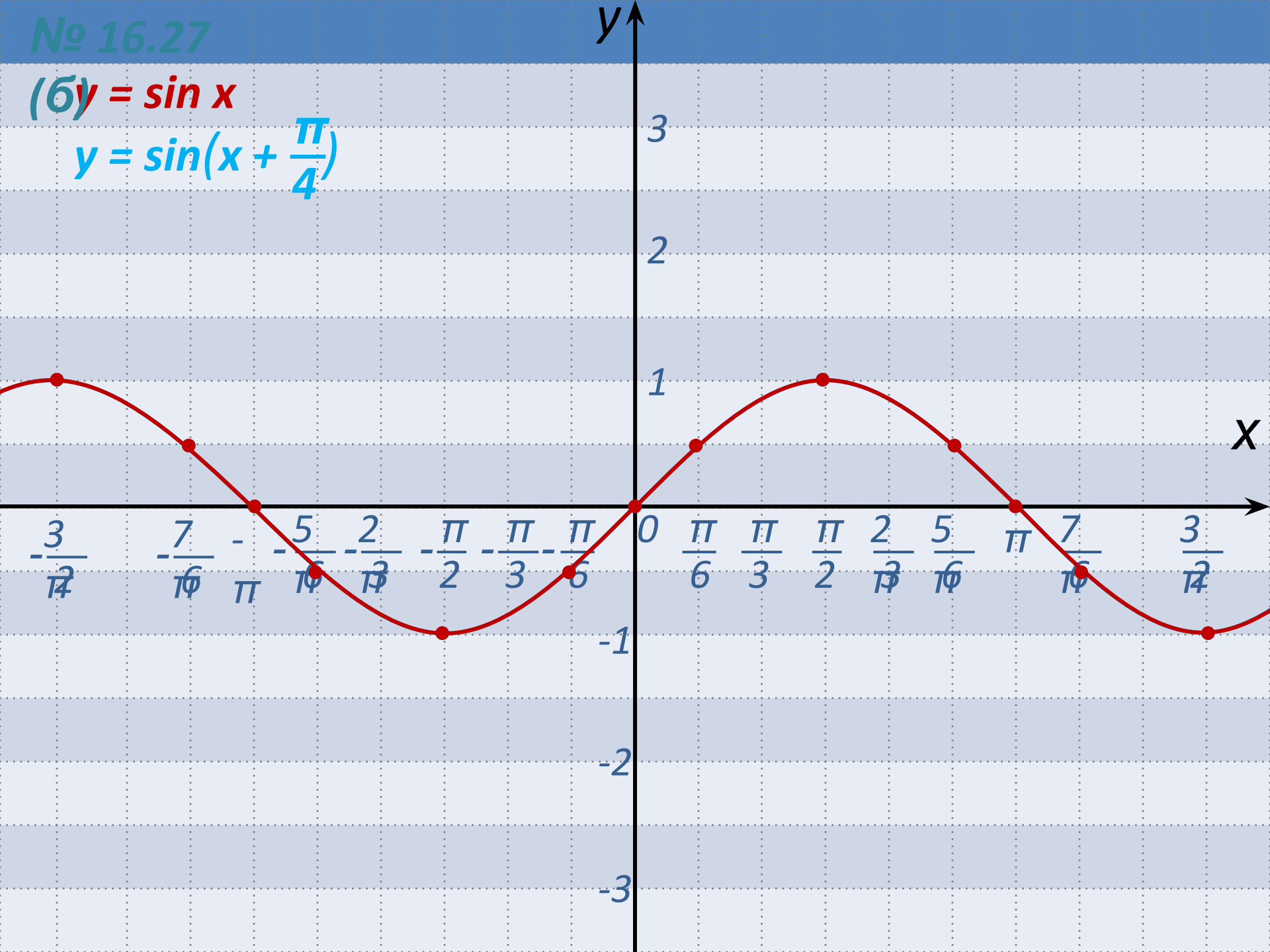
$y = \sin(x - \frac{\pi}{3})$



№ 16.27

$(6) y = \sin x$

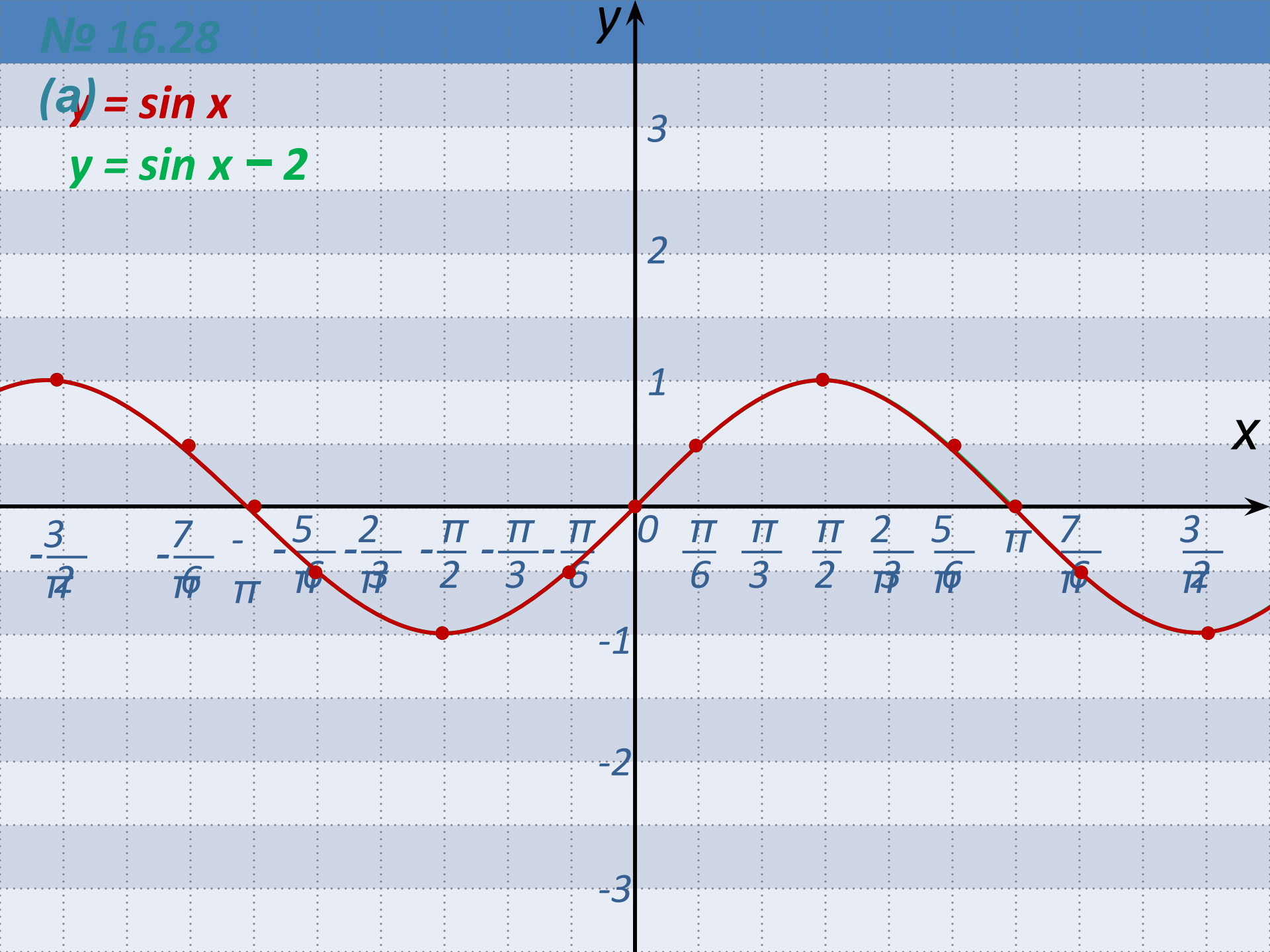
$y = \sin(x + \frac{\pi}{4})$



№ 16.28

$(a) y = \sin x$

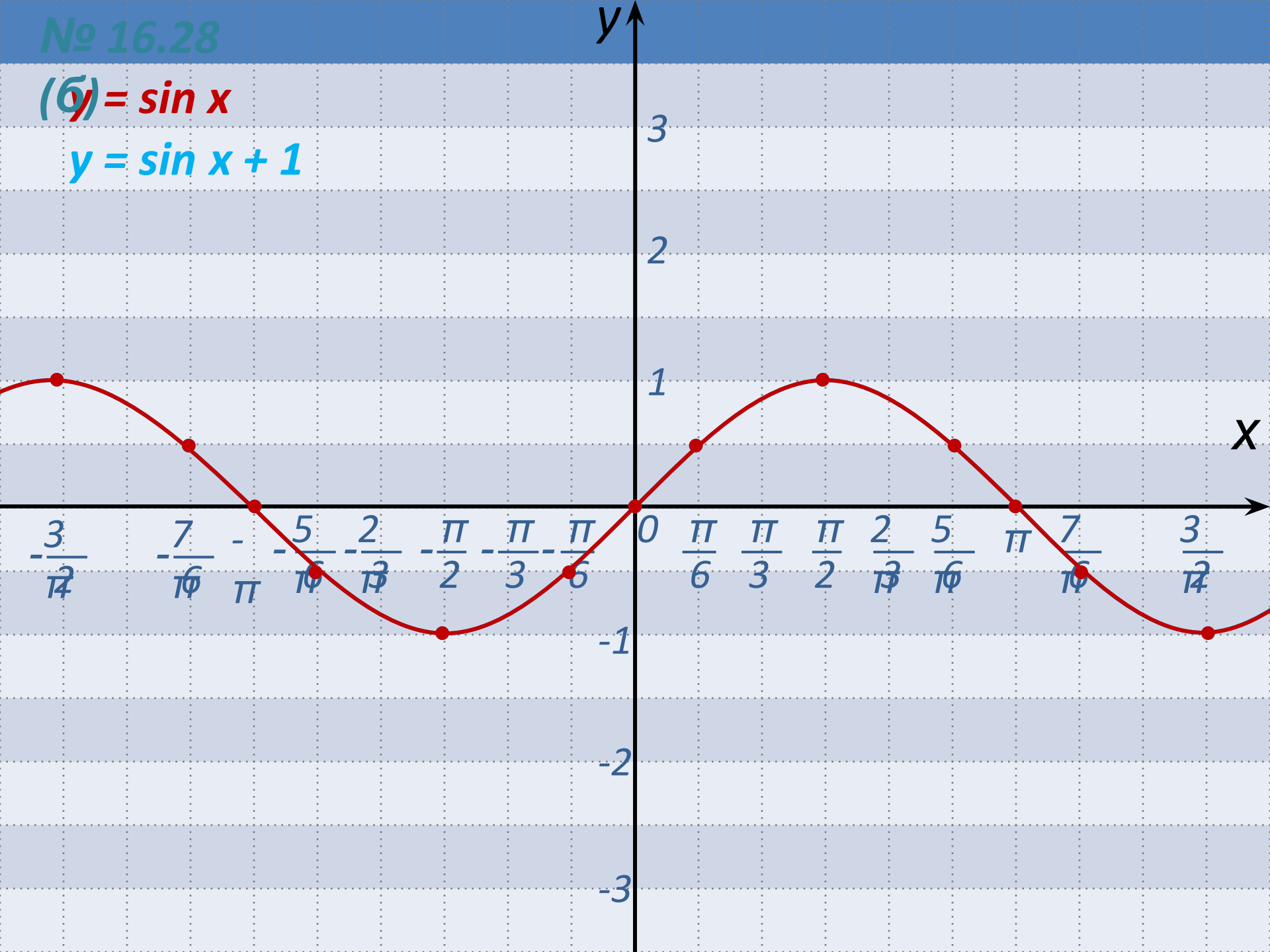
$y = \sin x - 2$



№ 16.28

~~$y = \sin x$~~

$y = \sin x + 1$



№ 16.29

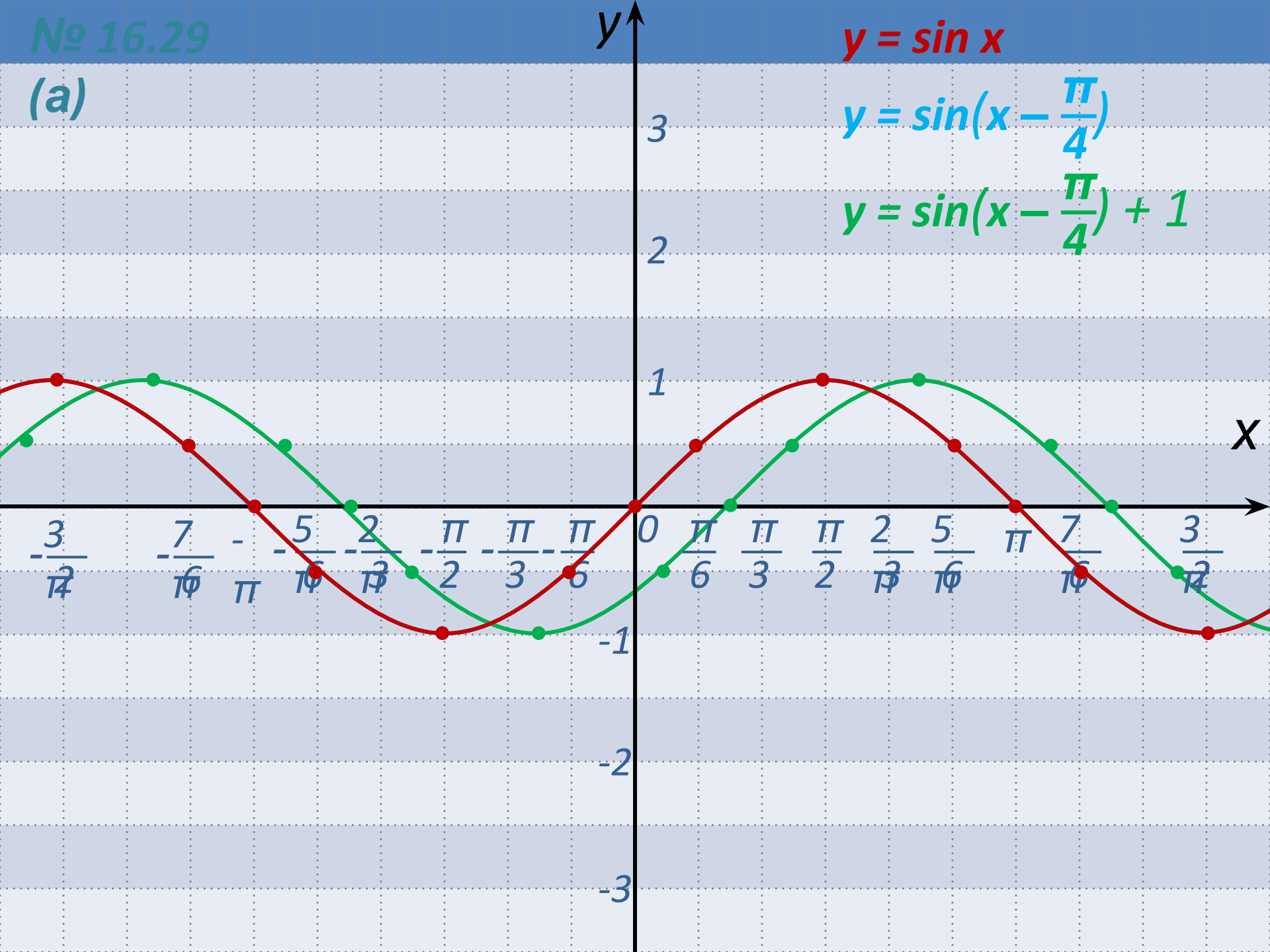
(a)

y

$y = \sin x$

$y = \sin(x - \frac{\pi}{4})$

$y = \sin(x - \frac{\pi}{4}) + 1$



x

$-\frac{3\pi}{12}$ $-\frac{7\pi}{16}$ π $-\frac{5\pi}{16}$ $-\frac{2\pi}{13}$ $-\frac{\pi}{2}$ $-\frac{\pi}{3}$ $-\frac{\pi}{6}$ 0 $\frac{\pi}{6}$ $\frac{\pi}{3}$ $\frac{\pi}{2}$ $\frac{2\pi}{13}$ $\frac{5\pi}{16}$ π $\frac{7\pi}{16}$ $\frac{3\pi}{12}$

-1
 -2
 -3

3
 2
 1

№ 16.30

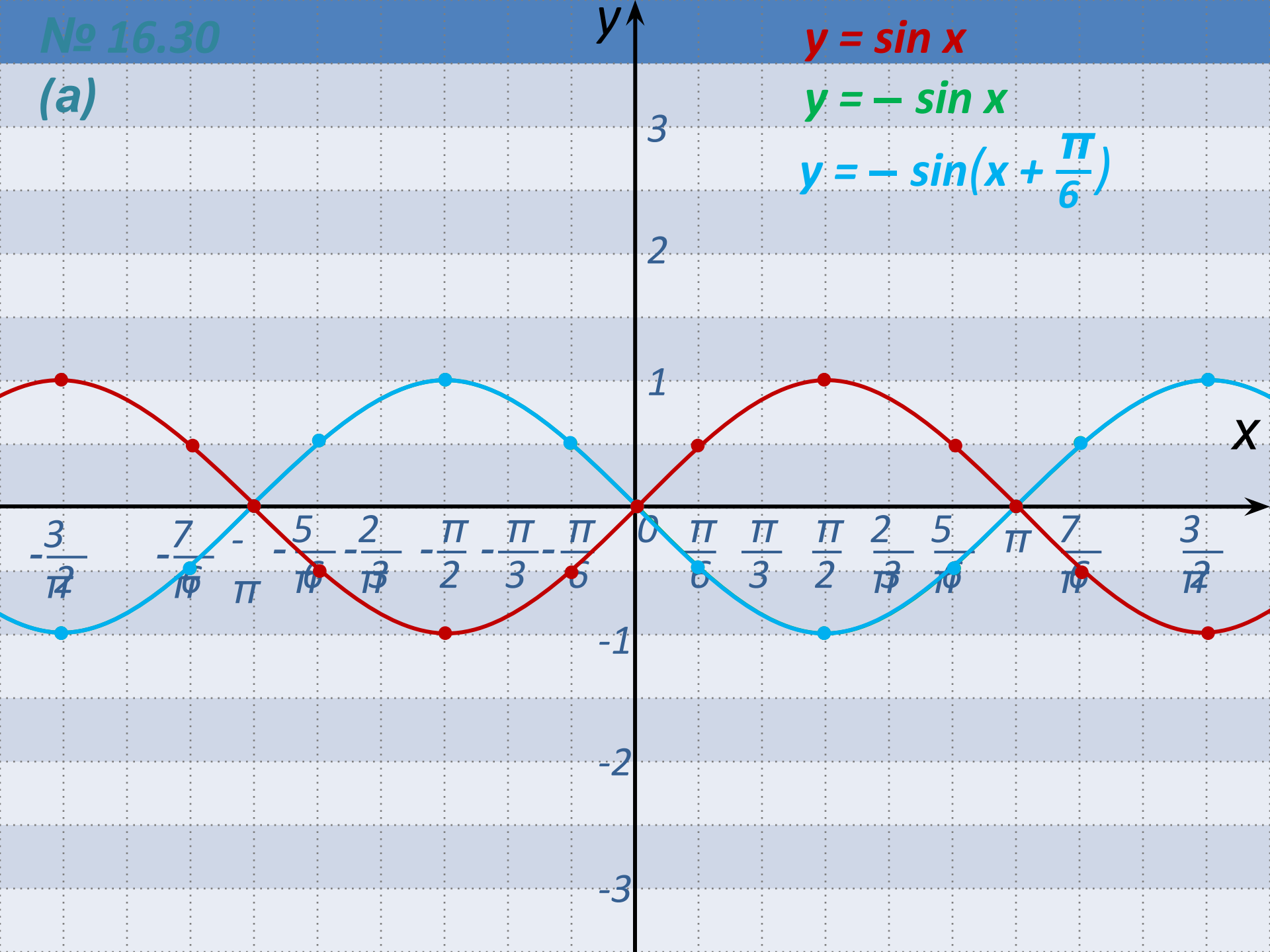
(a)

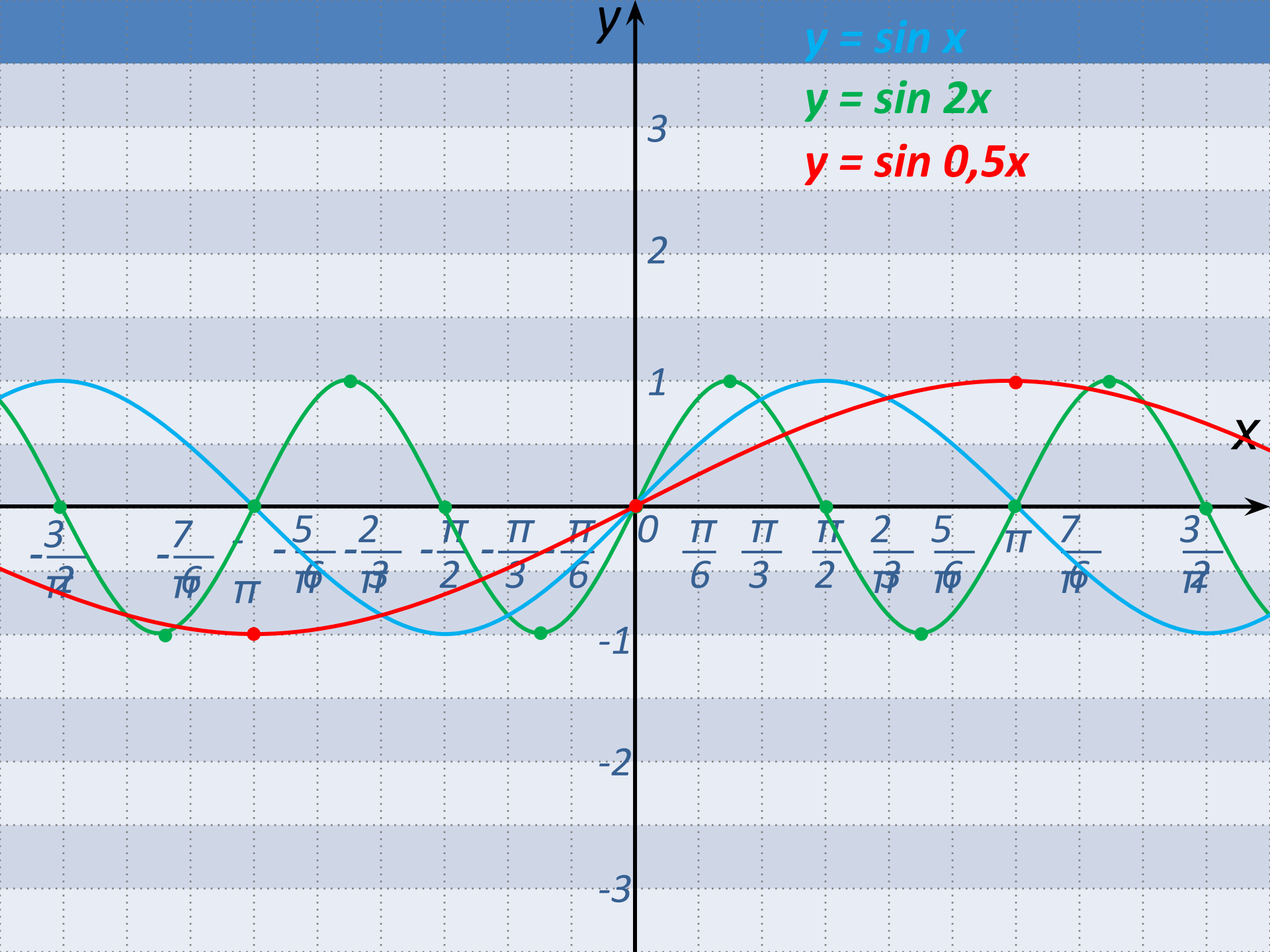
y

$$y = \sin x$$

$$y = -\sin x$$

$$y = -\sin\left(x + \frac{\pi}{6}\right)$$

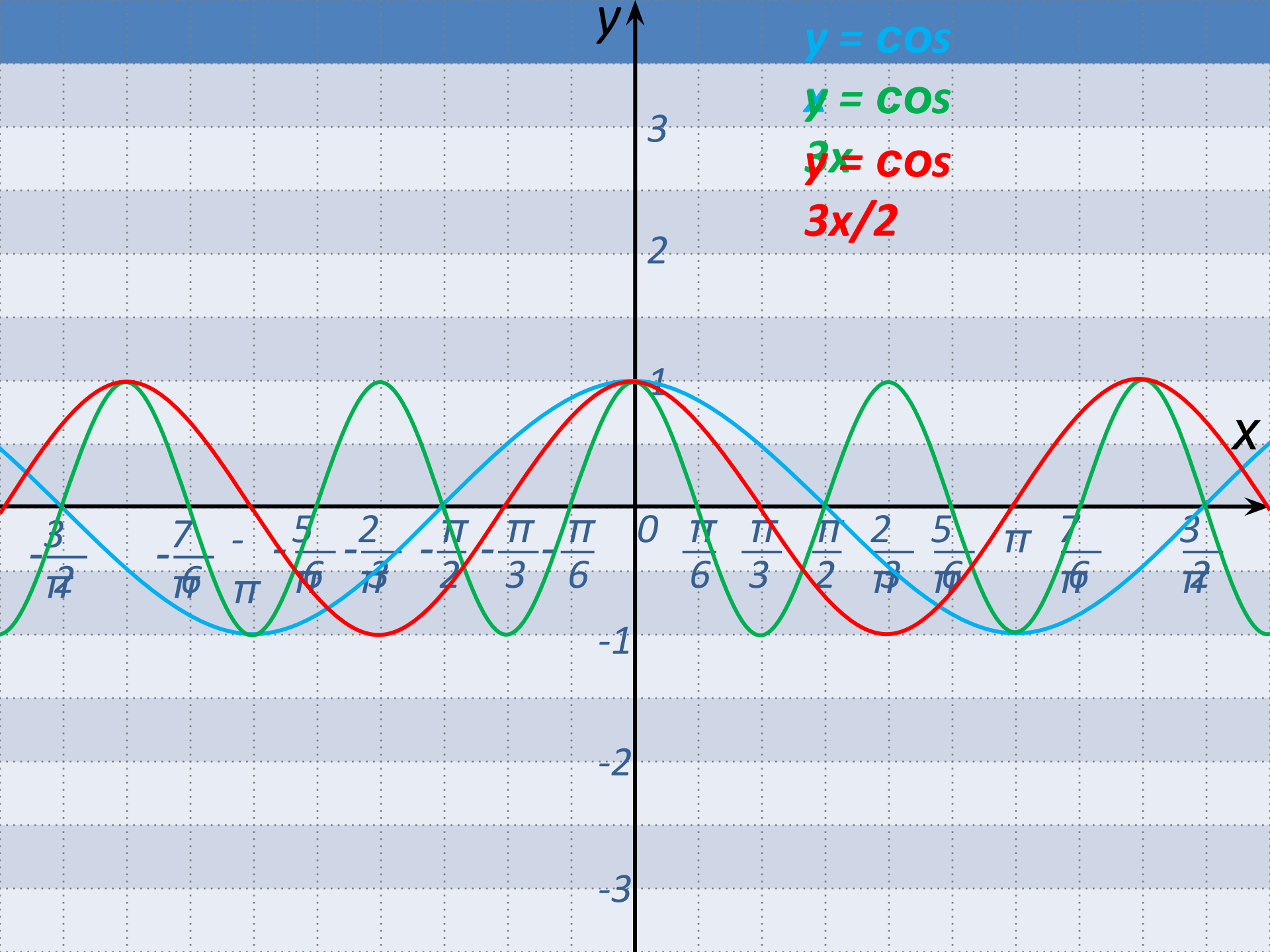


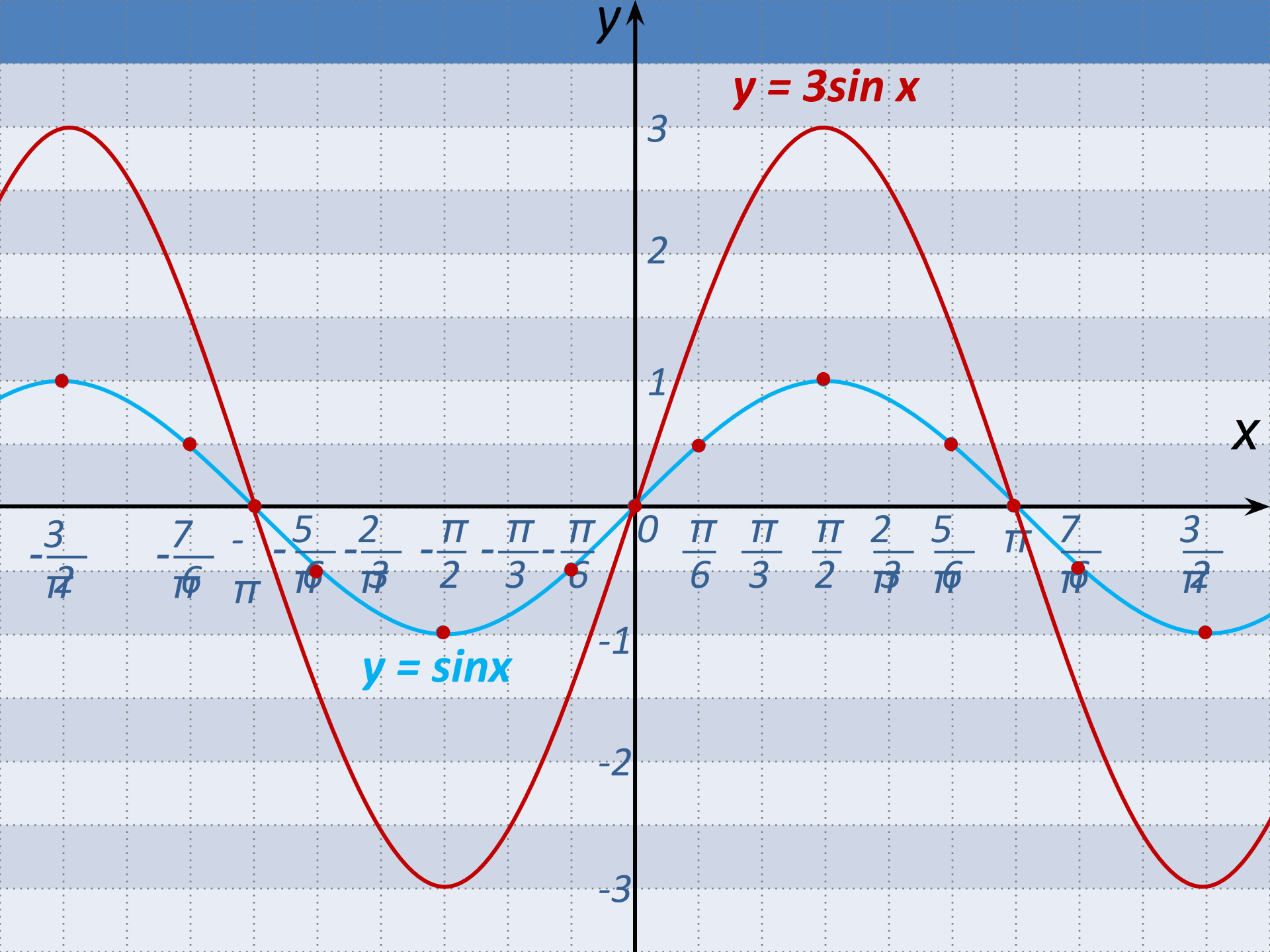


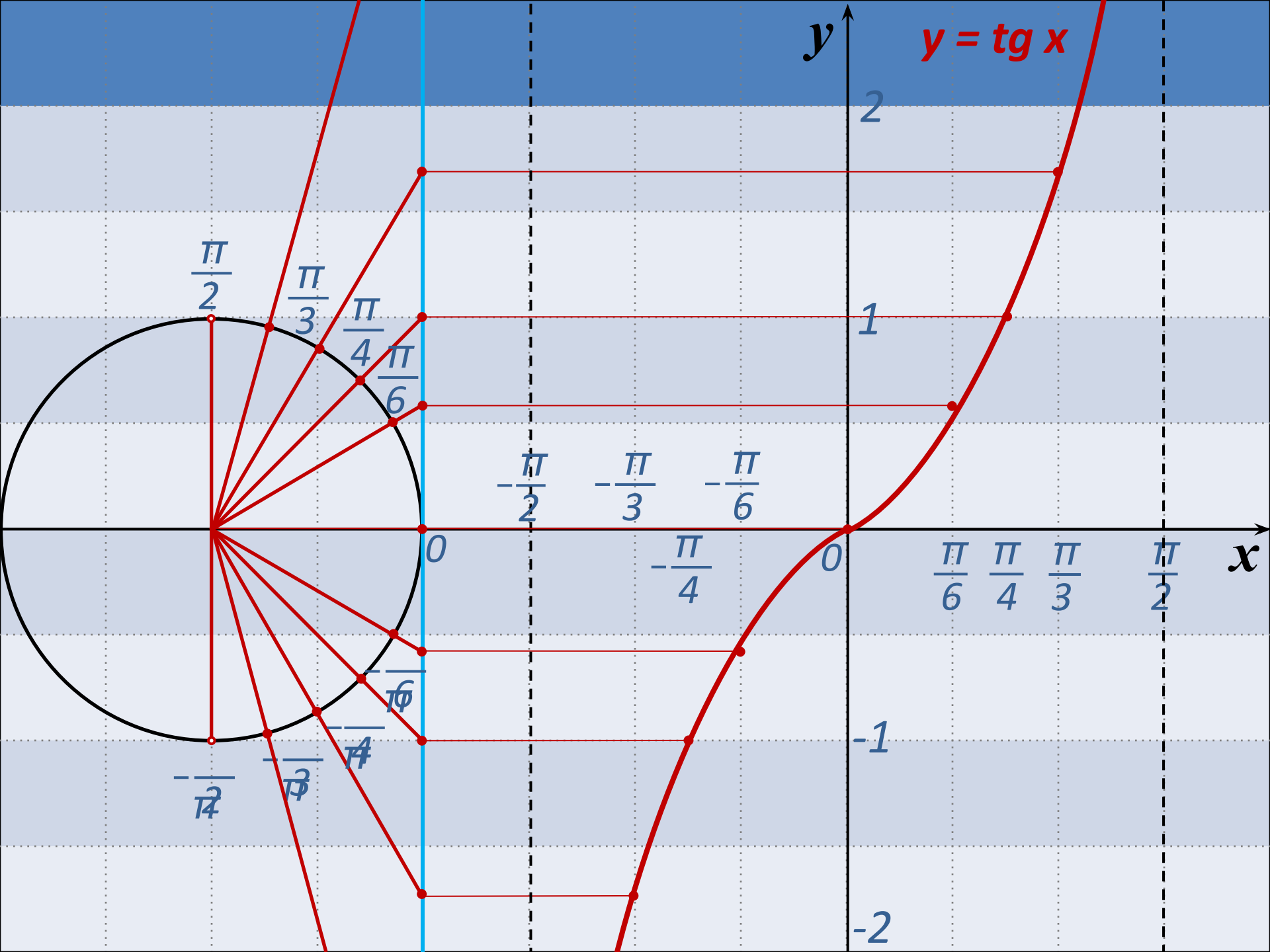
$y = \sin x$

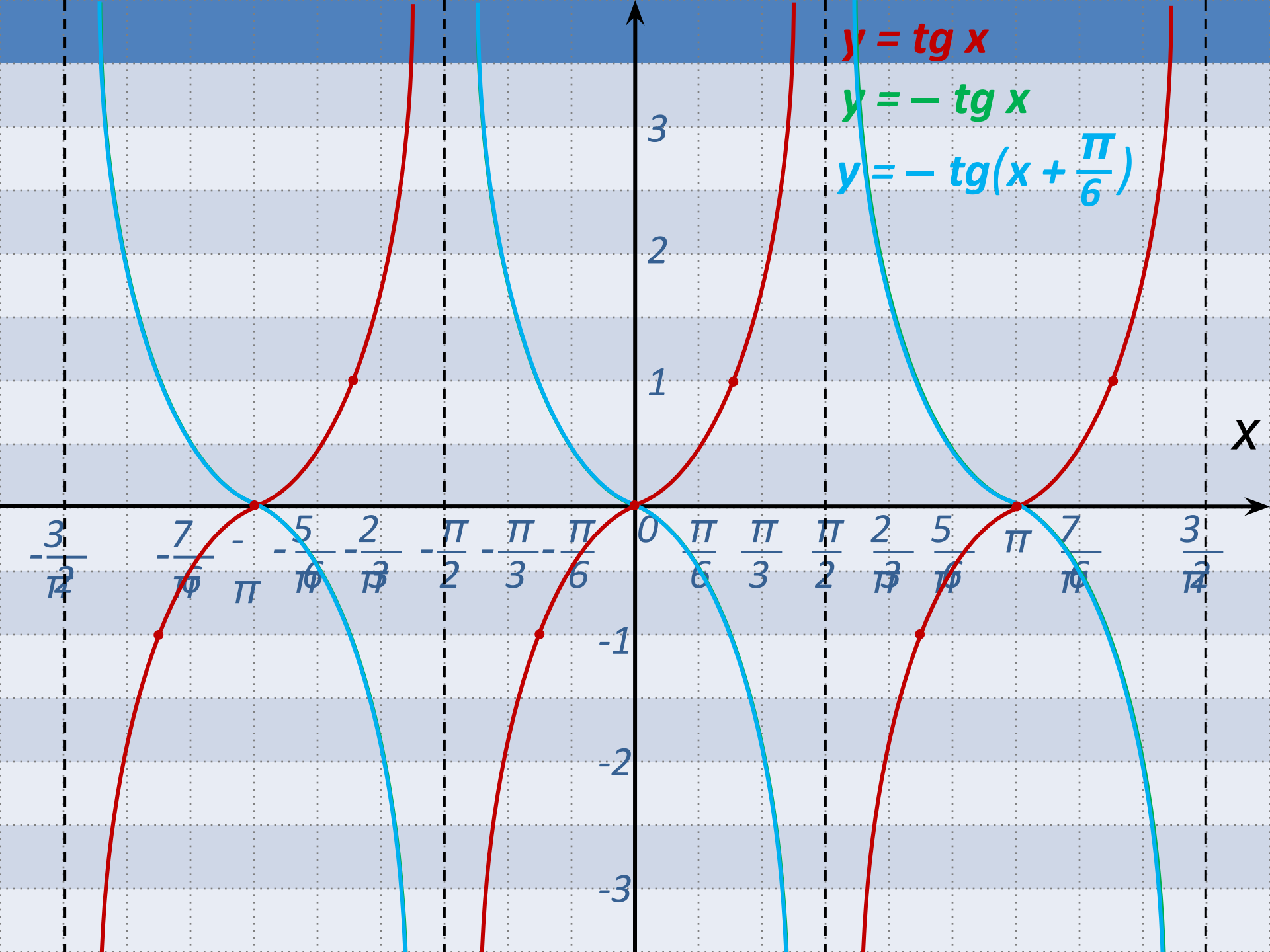
$y = \sin 2x$

$y = \sin 0,5x$





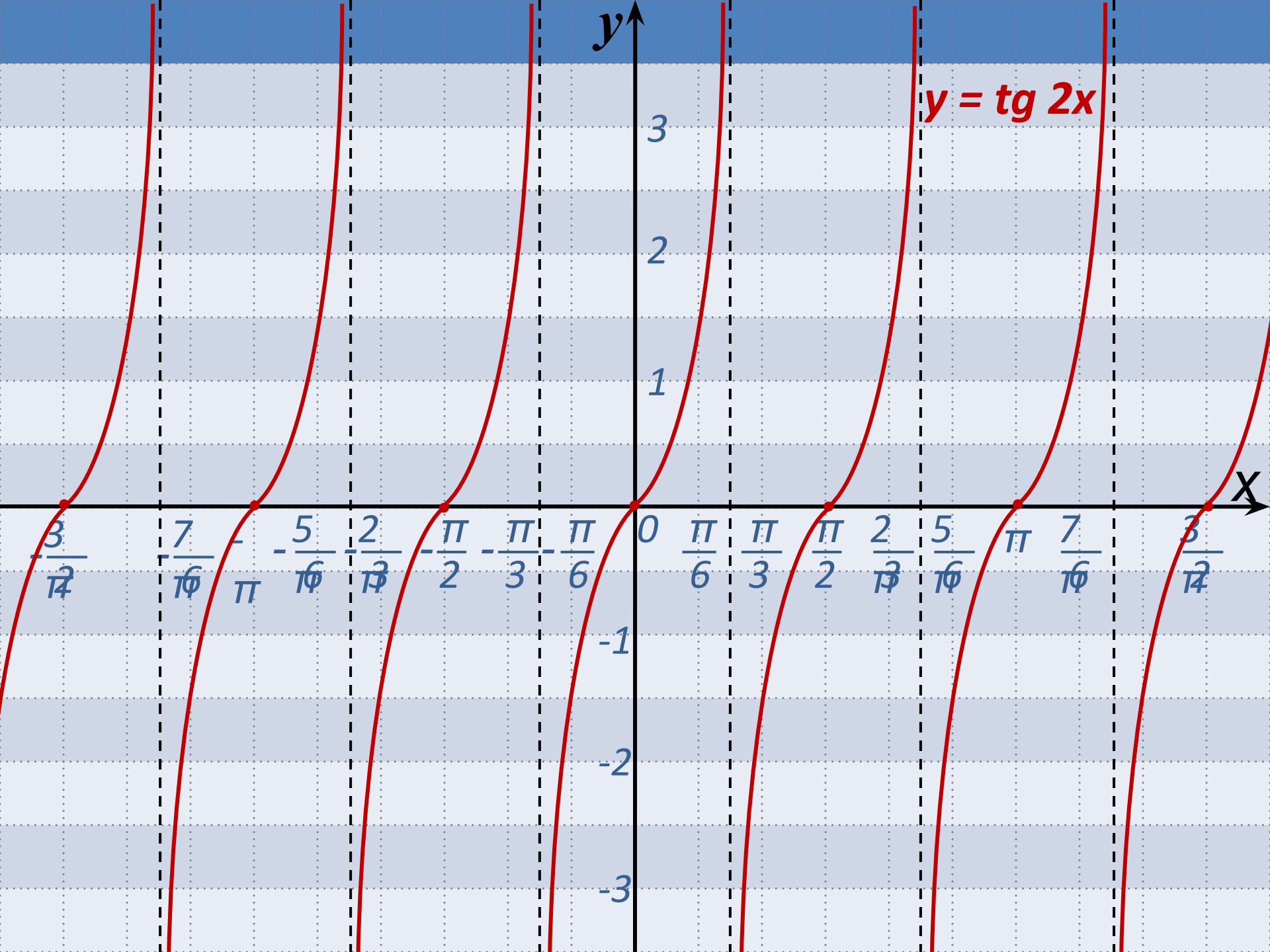


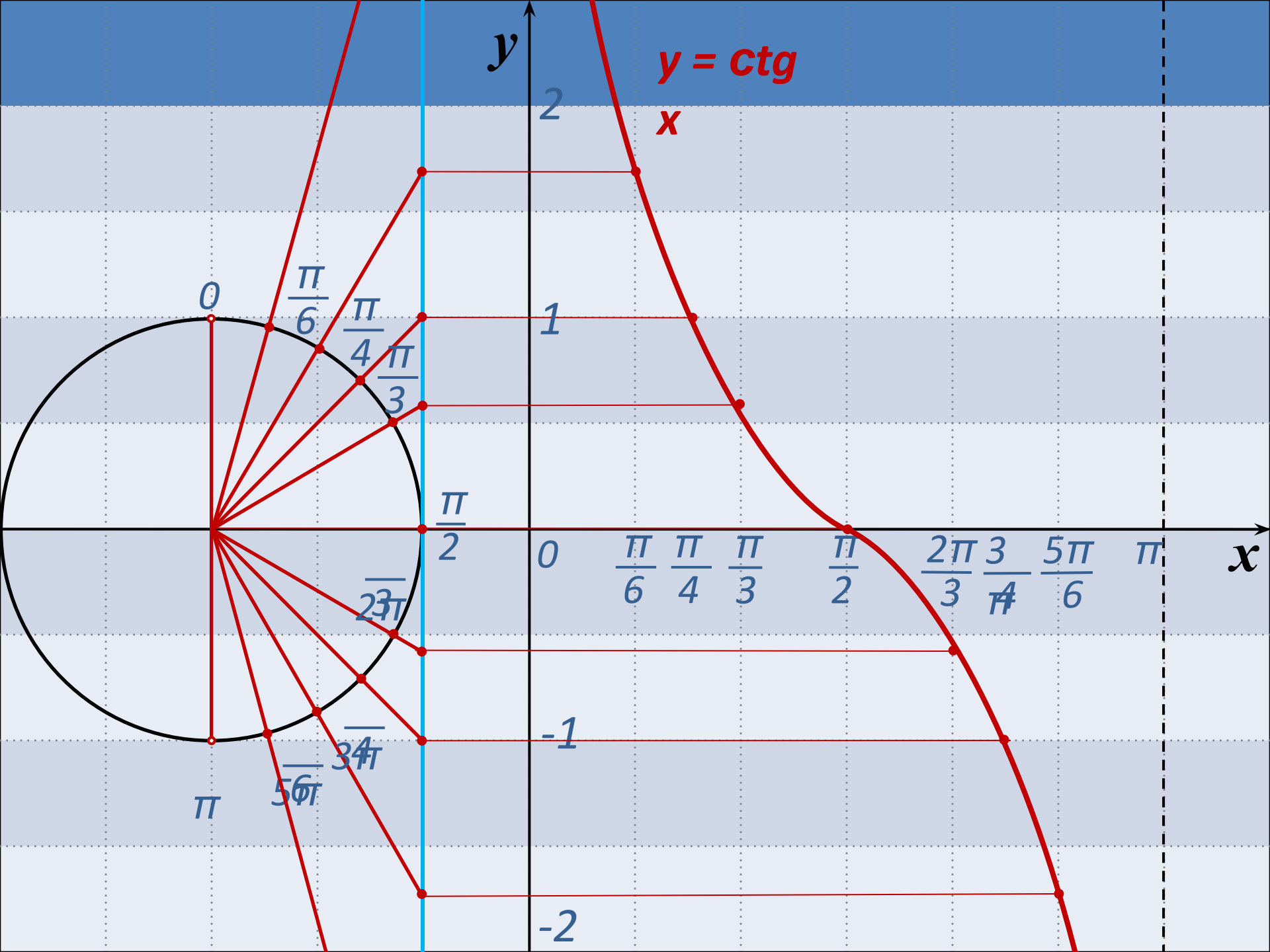


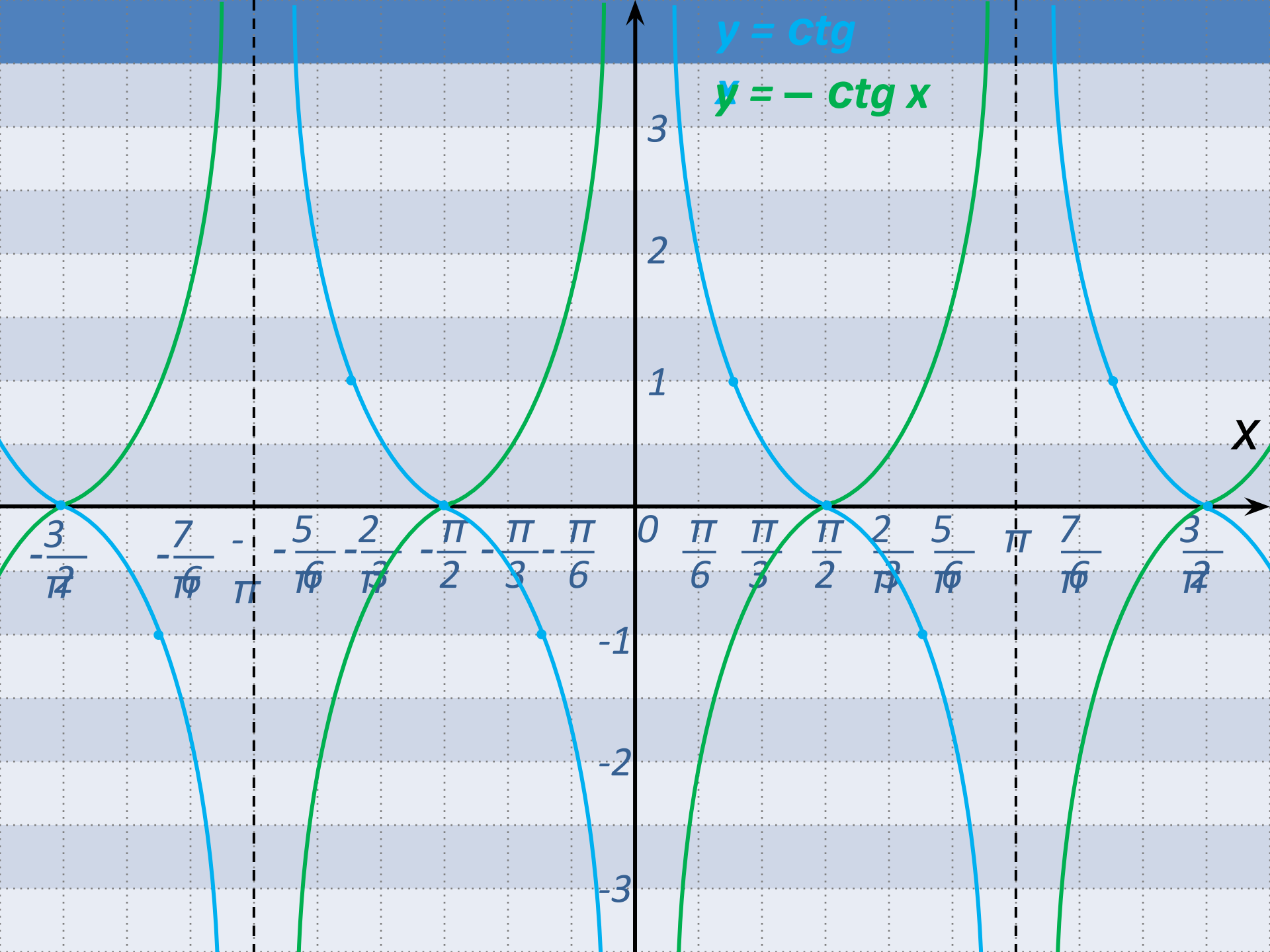
$$y = \operatorname{tg} x$$

$$y = -\operatorname{tg} x$$

$$y = -\operatorname{tg}(x + \frac{\pi}{6})$$







$$y = \text{ctg } x$$

$$y = -\text{ctg } x$$

