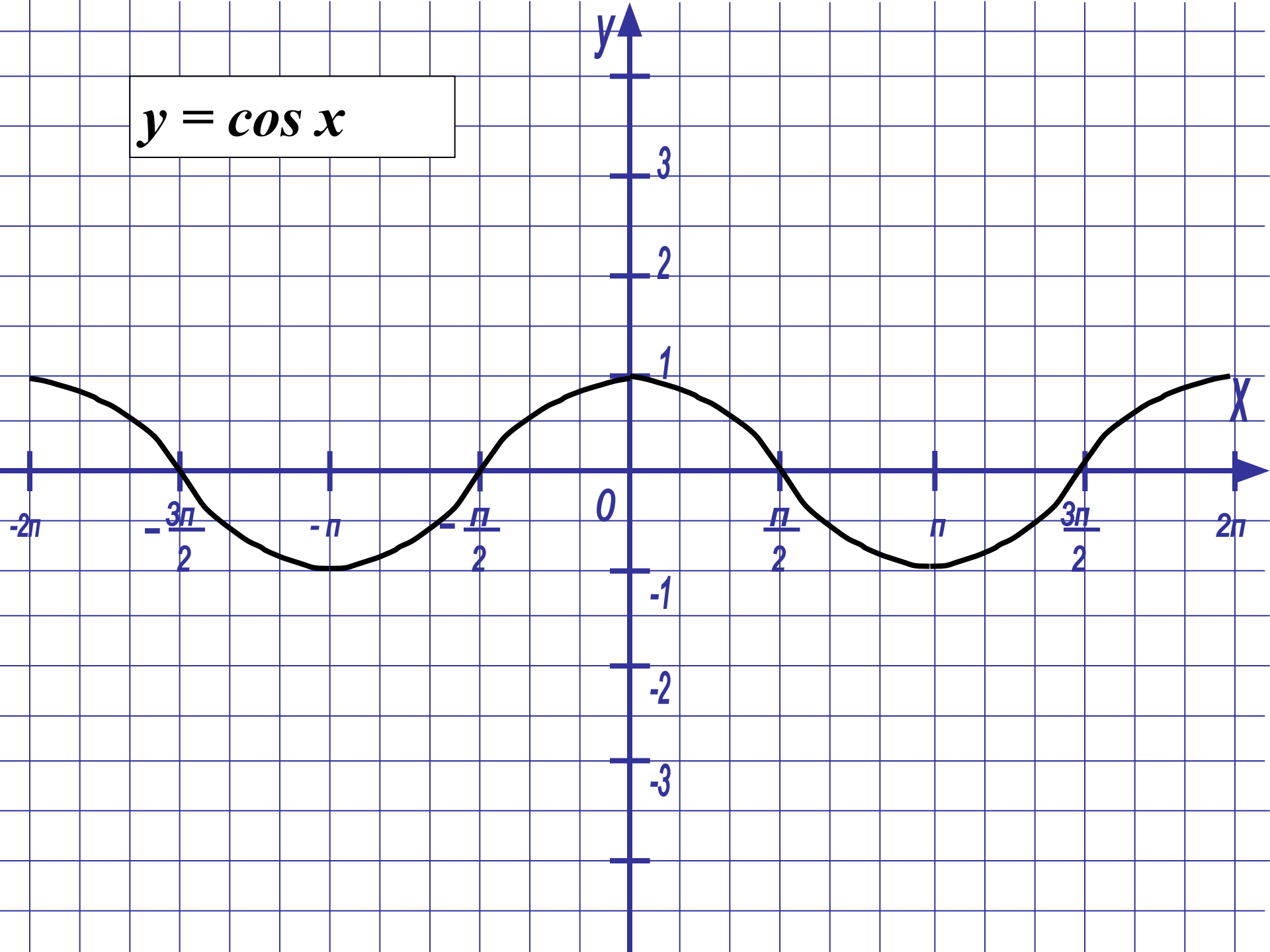


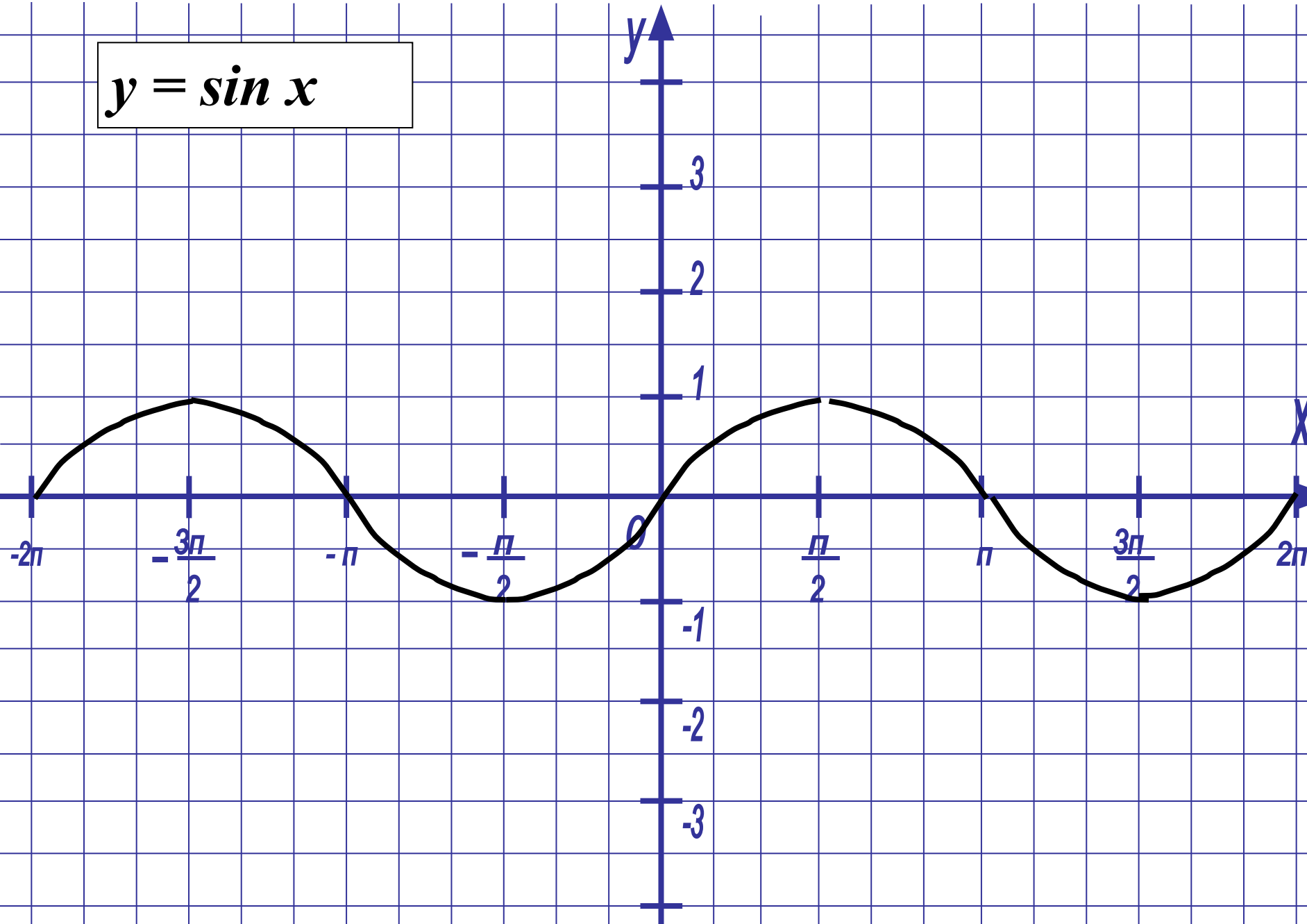
**Тема урока:**

**Построение  
графиков  
тригонометрических  
функций**

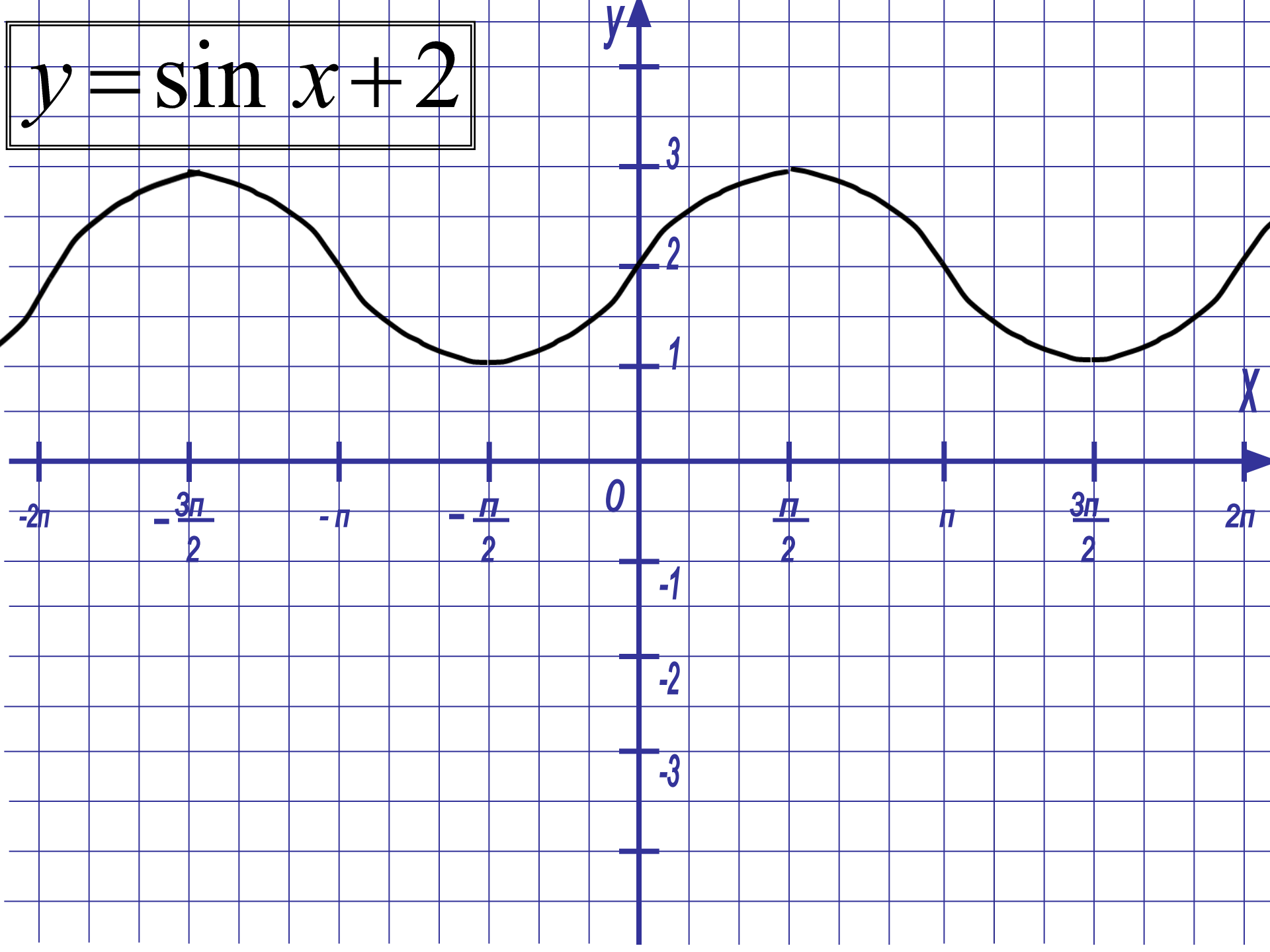
$$y = \cos x$$



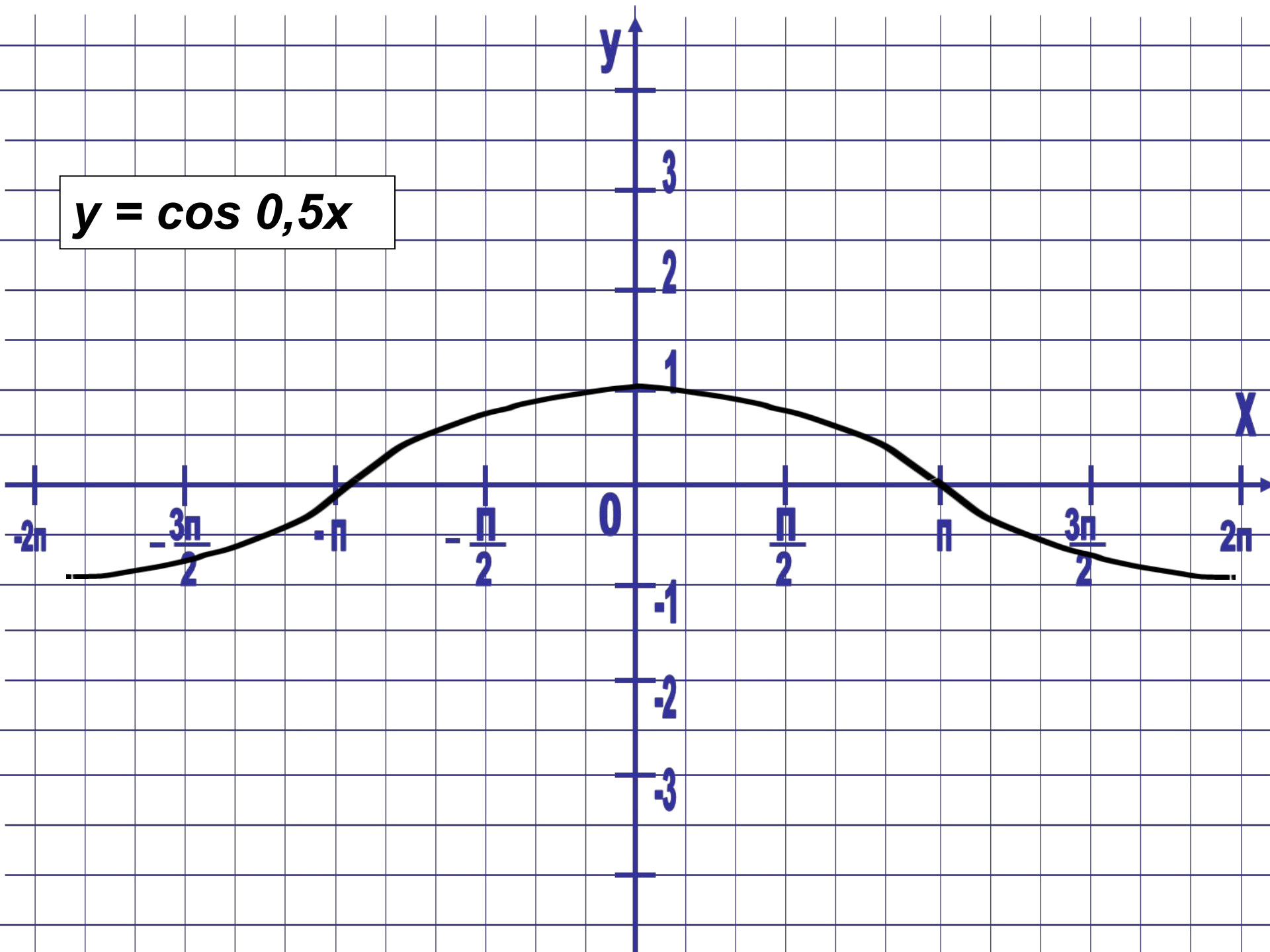
$$y = \sin x$$



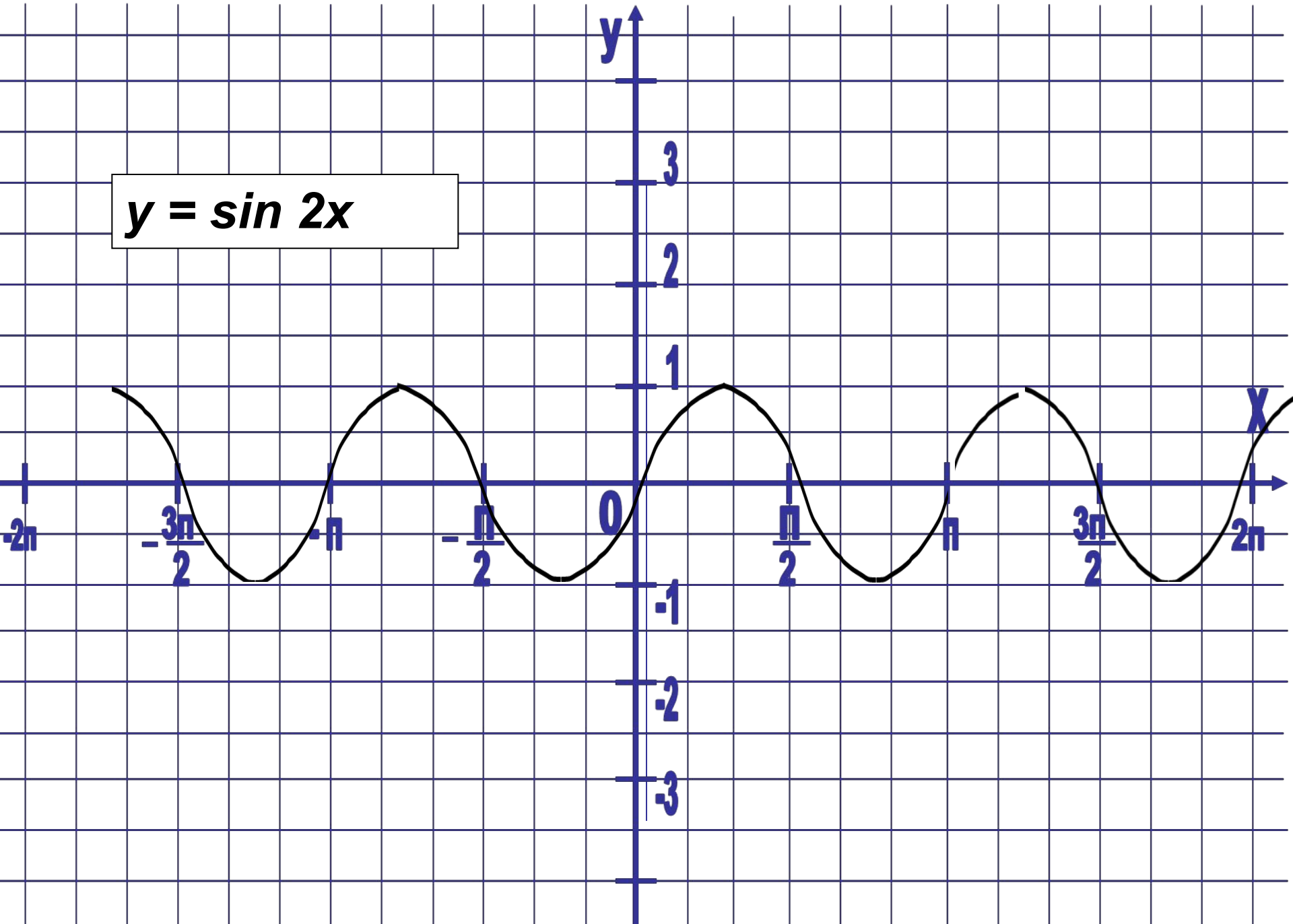
$$y = \sin x + 2$$



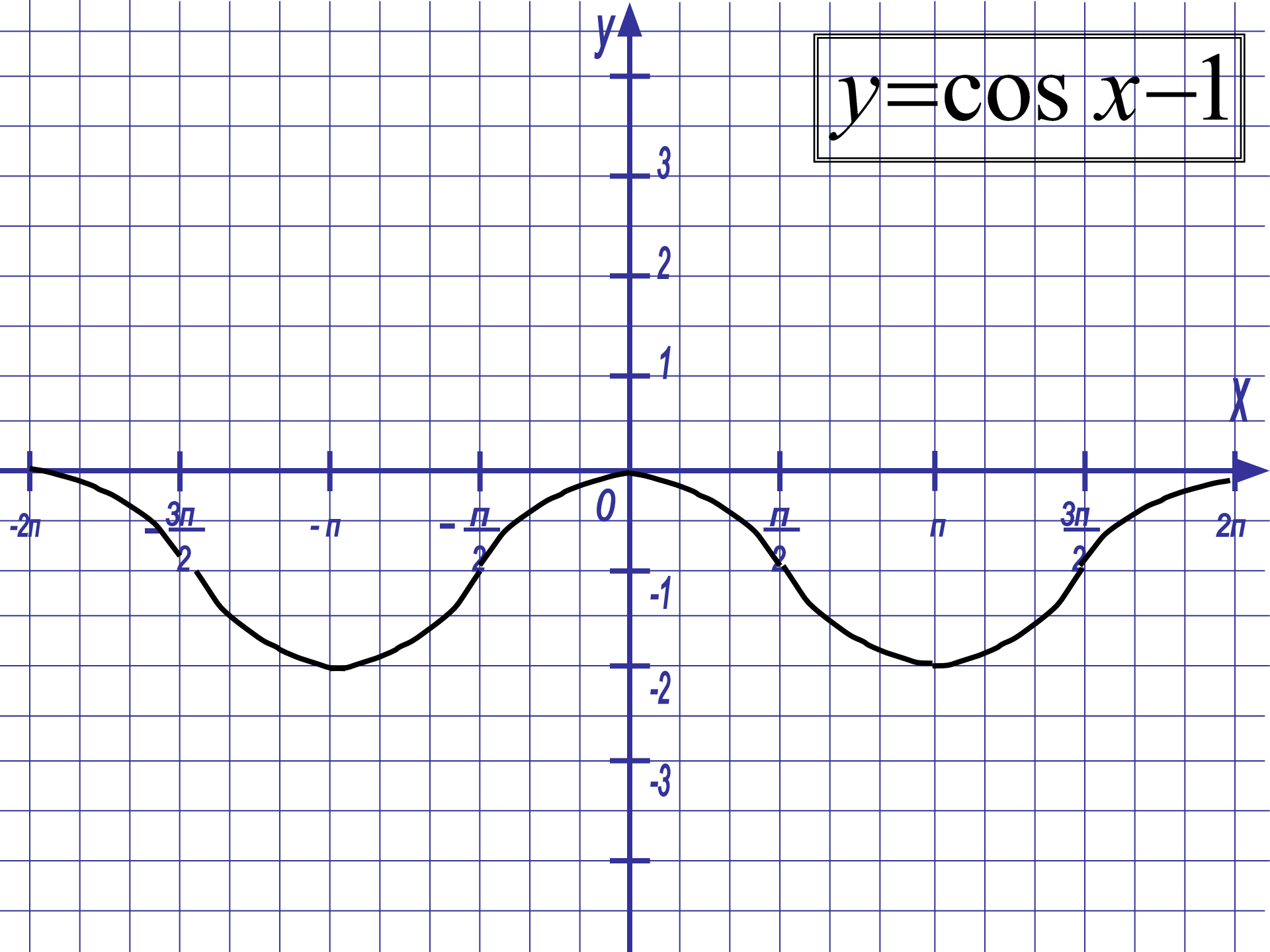
$$y = \cos 0,5x$$



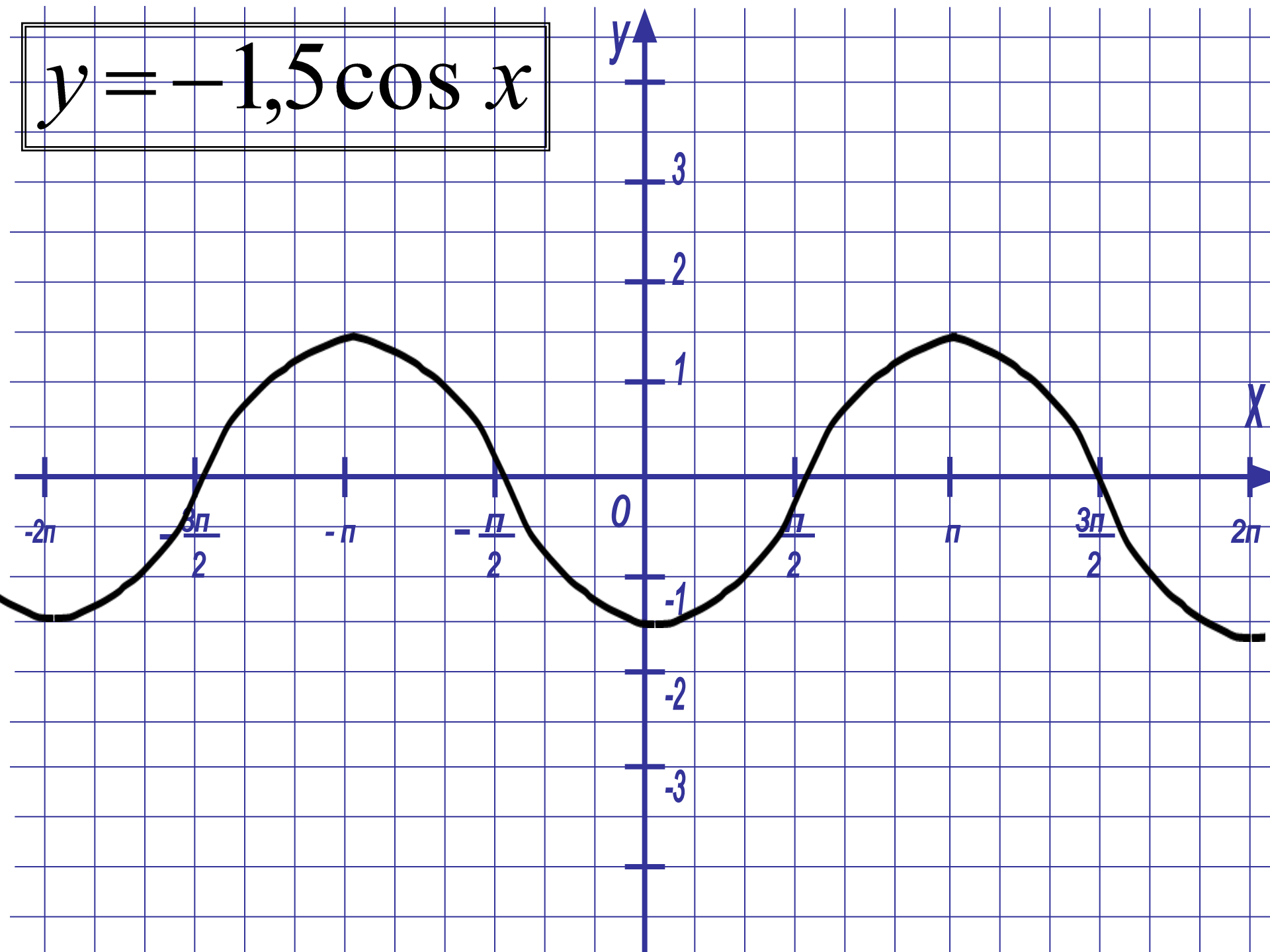
$$y = \sin 2x$$



$$y = \cos x - 1$$

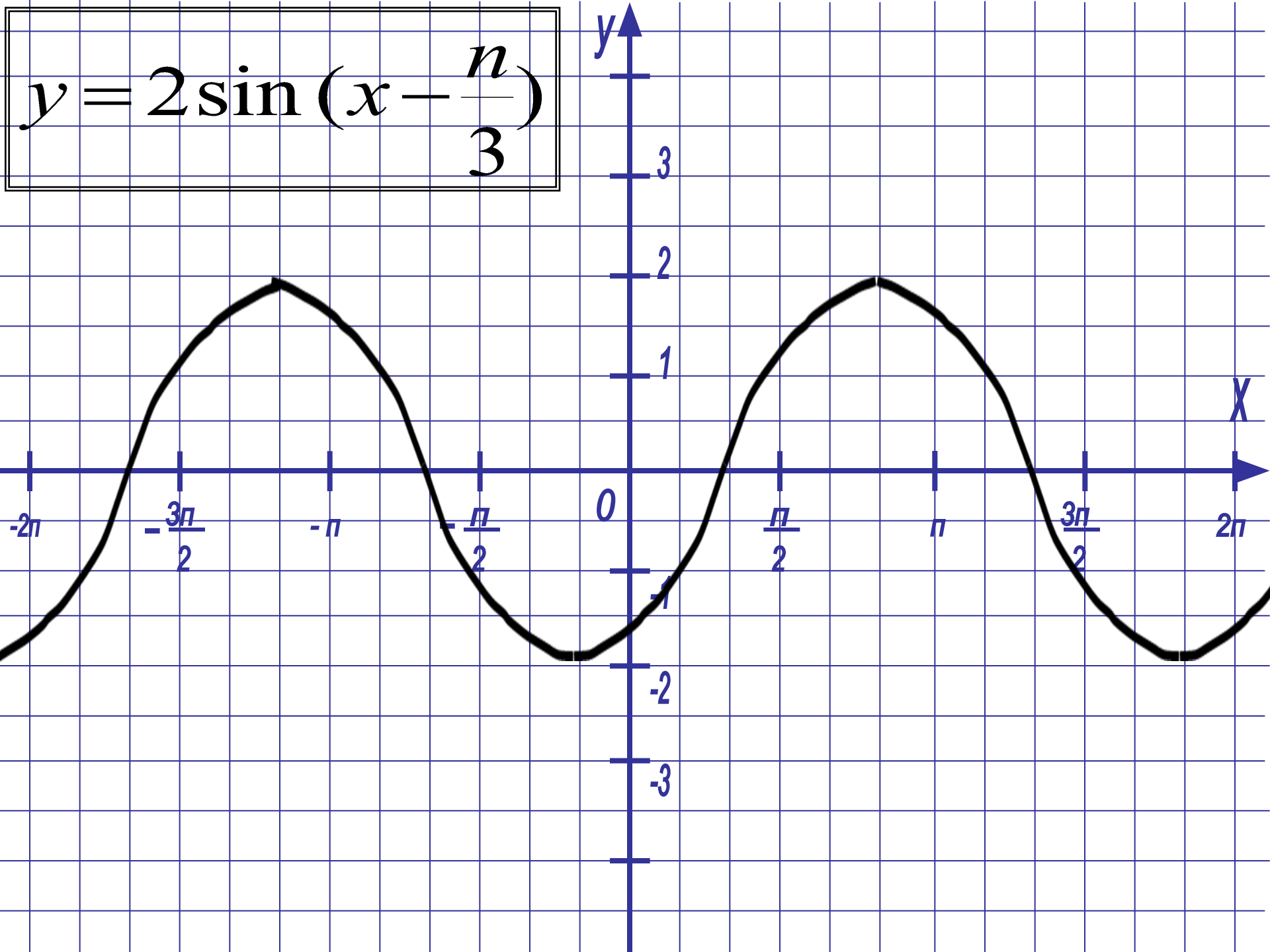


$$y = -1,5 \cos x$$

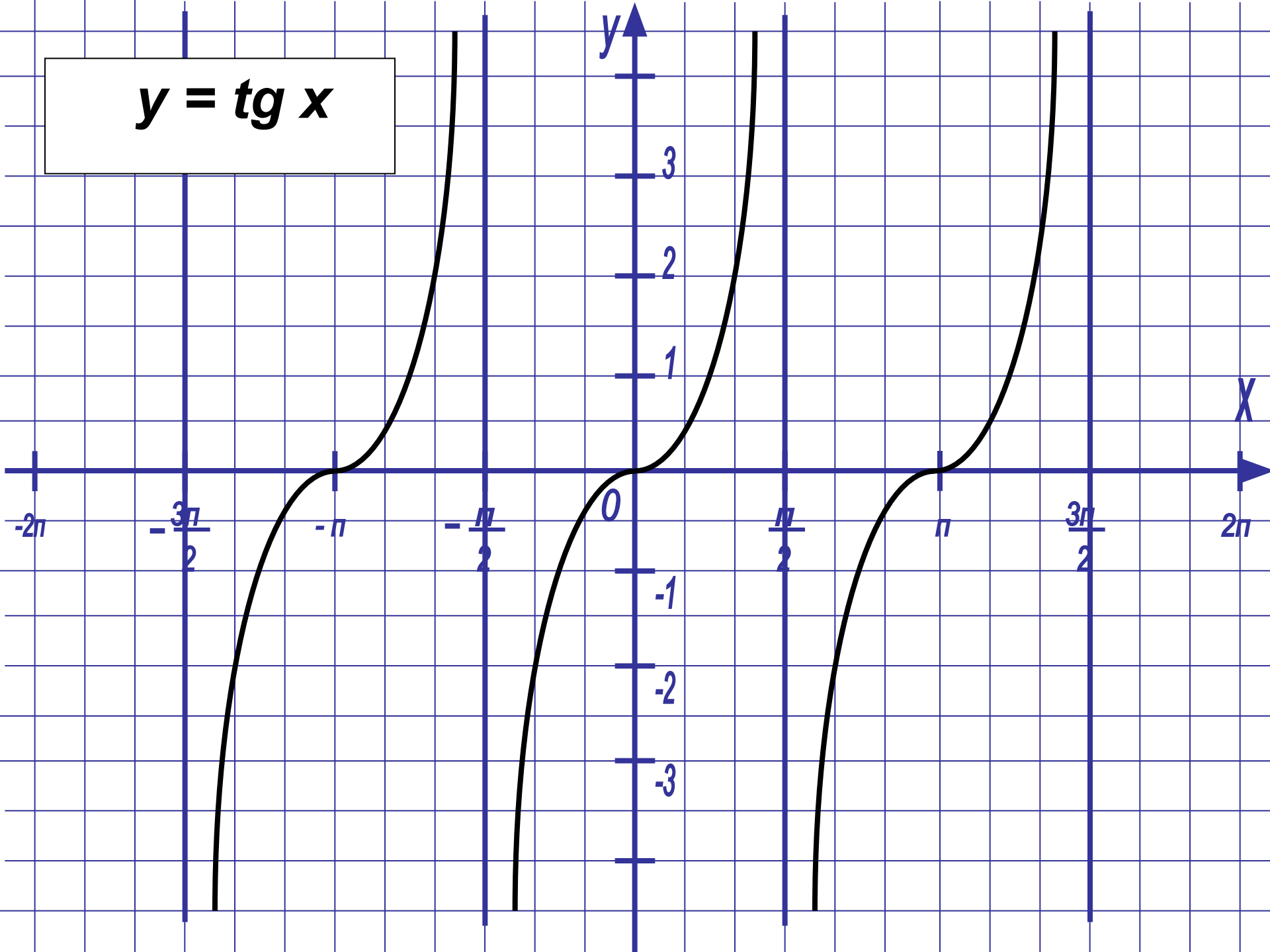




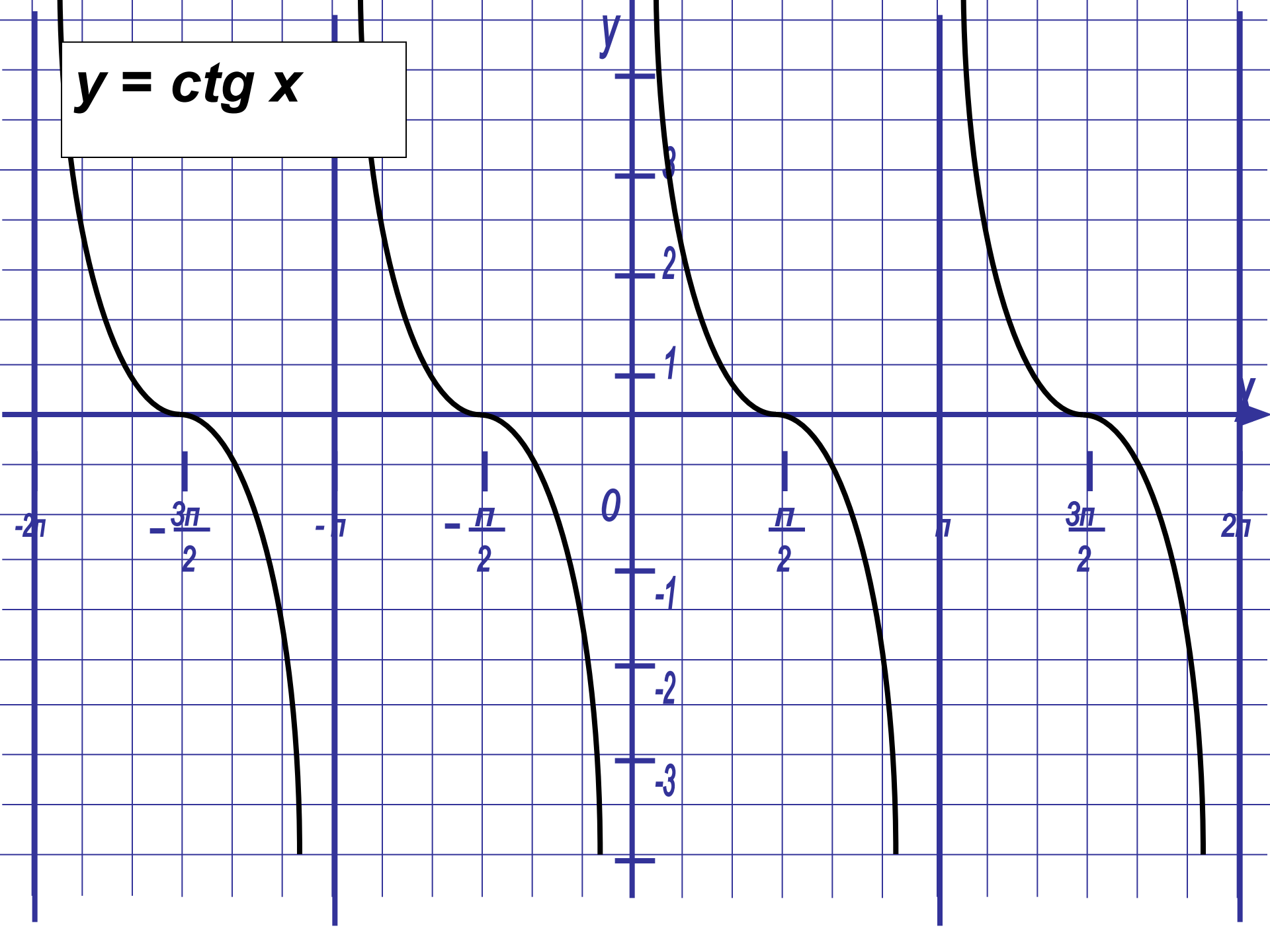
$$y = 2 \sin \left( x - \frac{\pi}{3} \right)$$



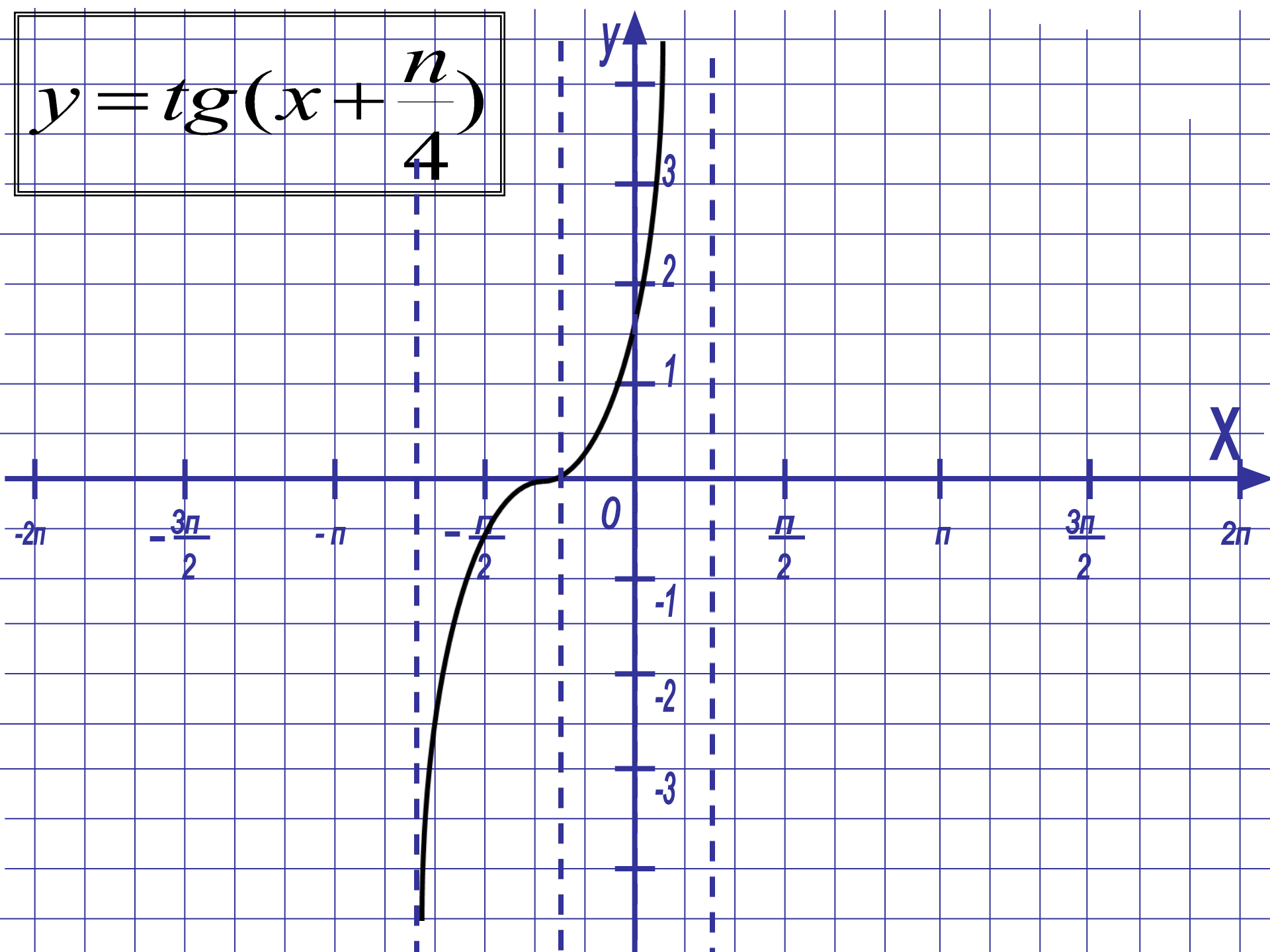
$$y = \operatorname{tg} x$$



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

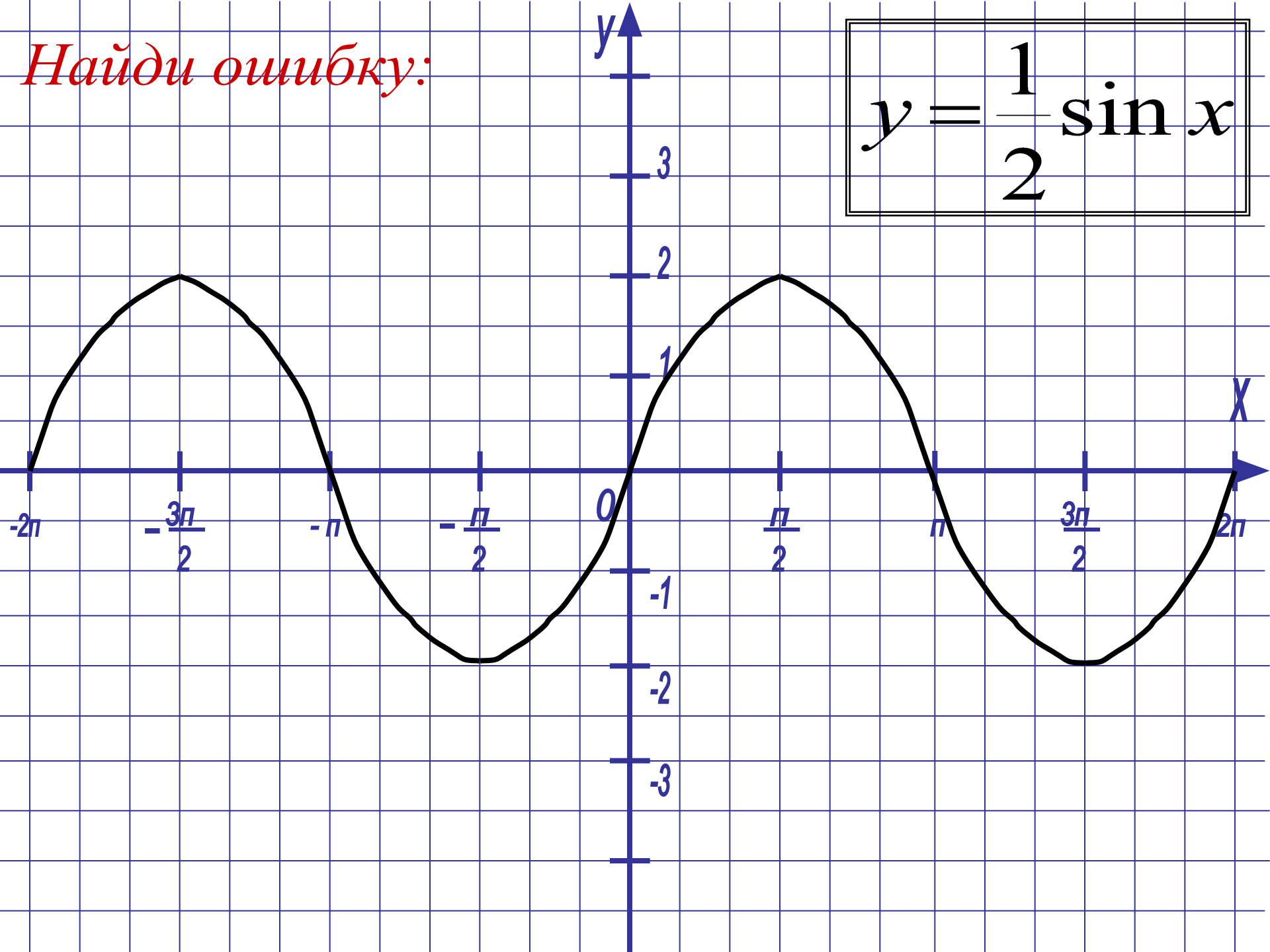


$$y = \operatorname{tg}\left(x + \frac{\pi}{4}\right)$$



*Найди ошибку:*

$$y = \frac{1}{2} \sin x$$



# Построить графики функций

a)  $y = 2\sin x$

b)  $y = \cos 3x$

c)  $y = 2\sin\left(x - \frac{\pi}{4}\right)$

a)  $y = -3\cos x$

b)  $y = \sin 3x$

c)  $y = -3\cos\left(x + \frac{\pi}{6}\right)$