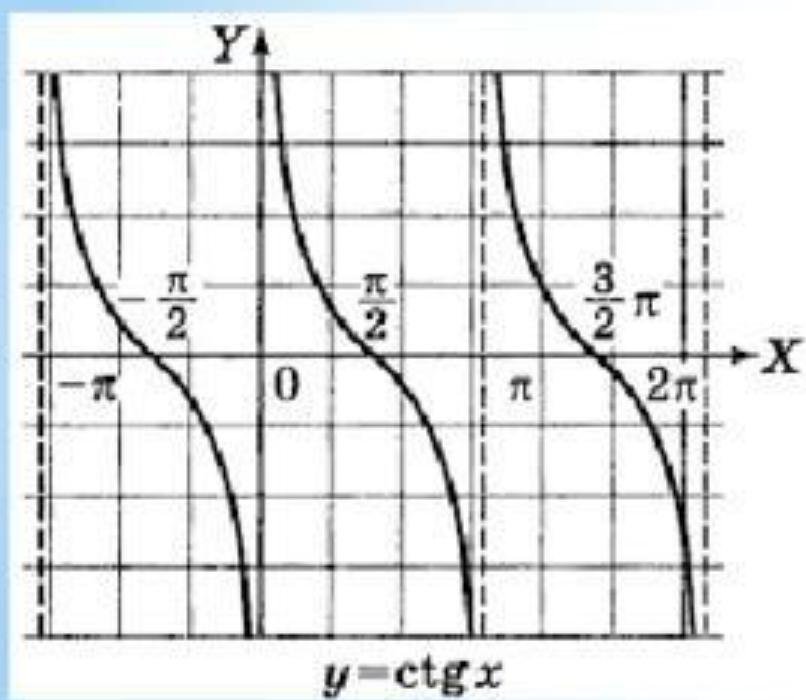
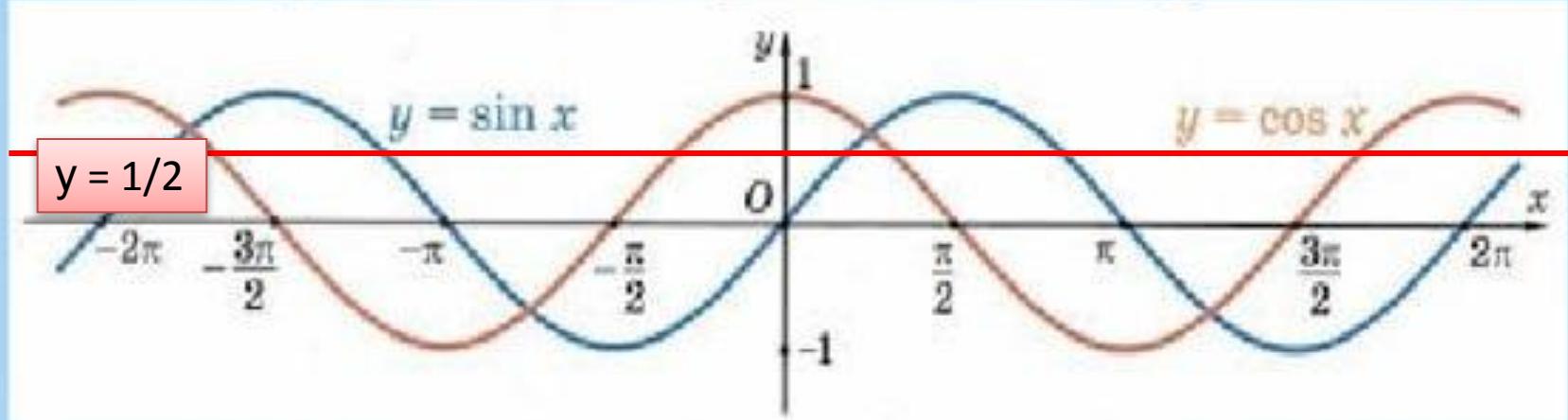


# Тригонометрические уравнения. Урок №1

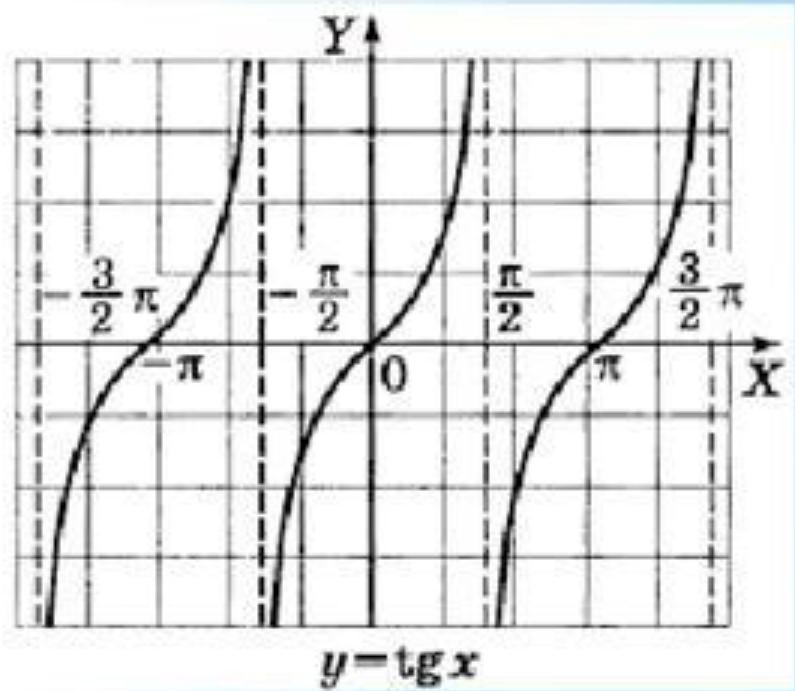
## Частные случаи.

Гуляева Е.Ю.

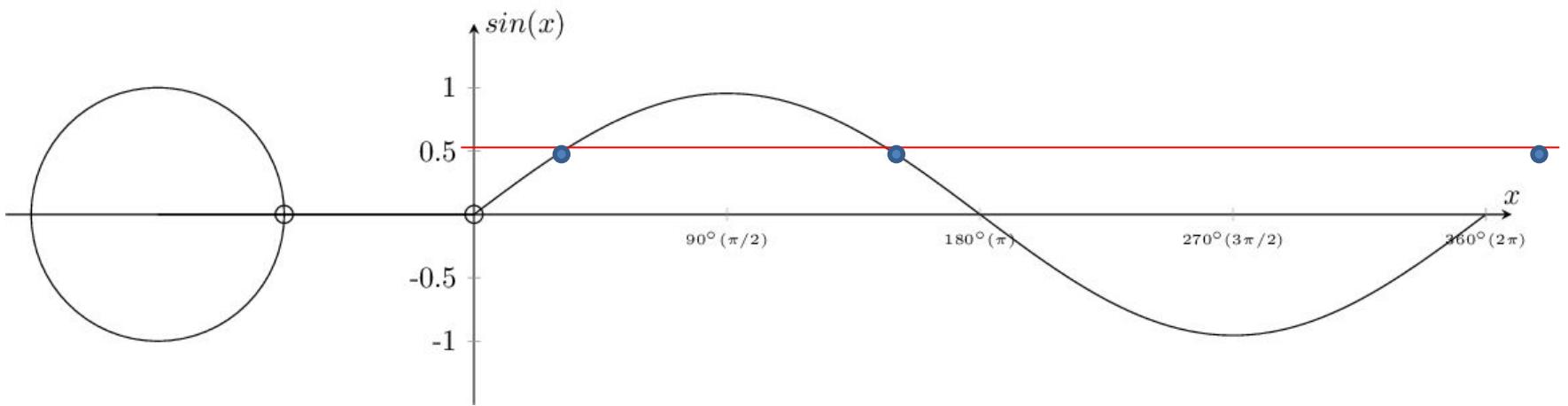
# Тригонометрические функции



Гуляева Е.Ю.



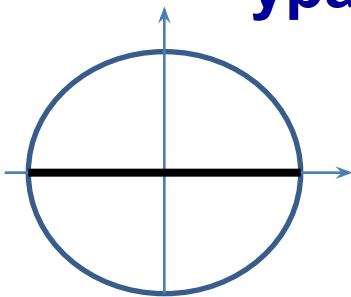
$$y=\sin x$$



# Частные случаи решения тригонометрических уравнений

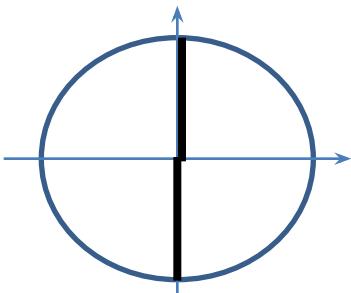
$$\sin x = 0$$

$x = \pi n$



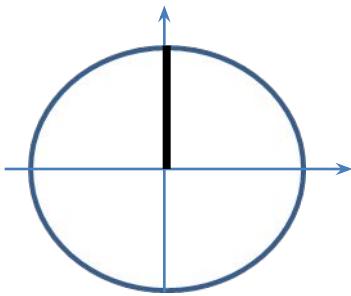
$$\cos x = 0$$

$x = \pi/2 + \pi n$



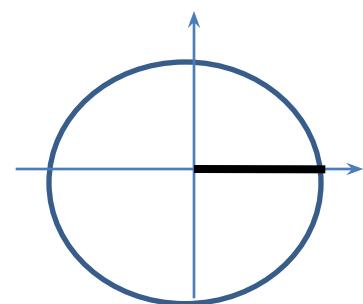
$$\sin x = 1$$

$x = \pi/2 + 2\pi n$



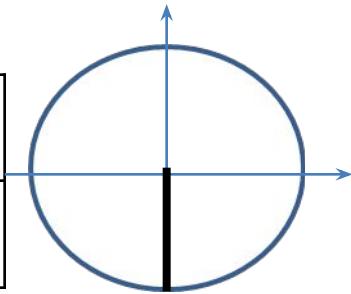
$$\cos x = 1$$

$x = 0 + 2\pi n$



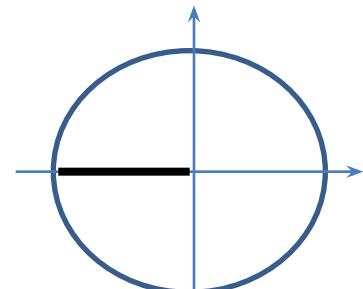
$$\sin x = -1$$

$x = -\pi/2 + \pi n$



$$\cos x = -1$$

$x = \pi + 2\pi n$



# *Домашнее задание:*

Решить уравнения

- 1.  $\cos 2x = -1$**
  
- 2.  $\sin 3x = 1$**
  
- 3.  $\cos x/2 = 1$**
  
- 4.  $\sin x/4 = -1$**
  
- 5.  $\sin (x + \pi/4) = 0$**