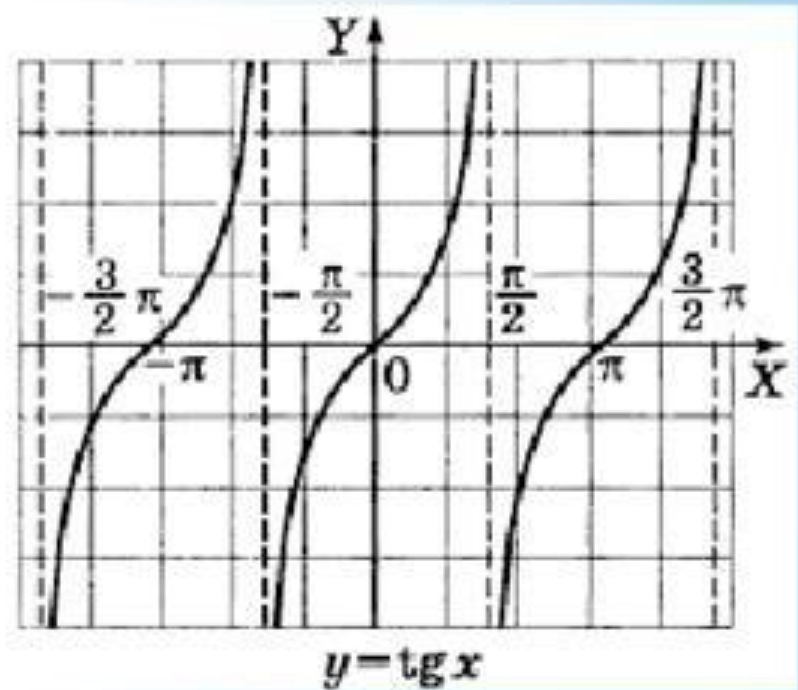
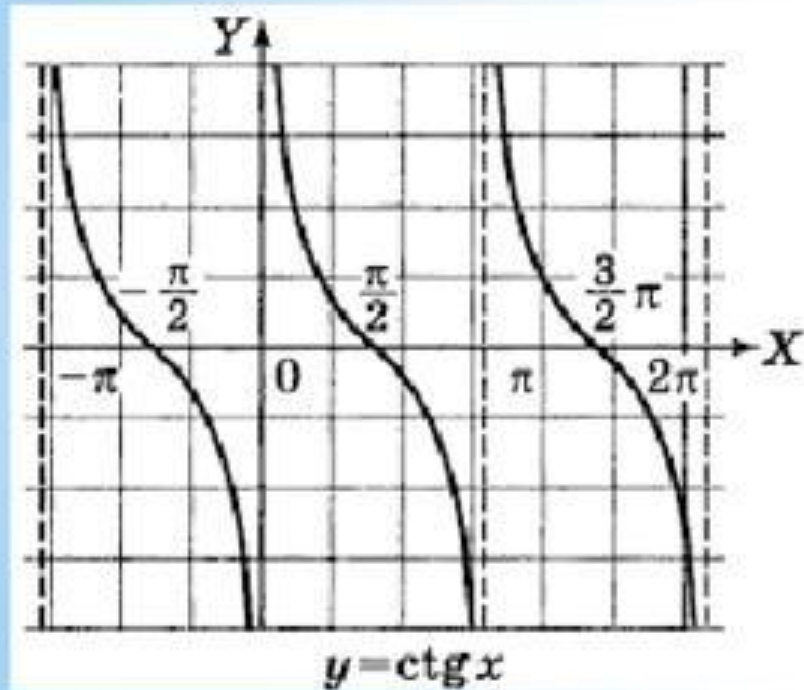
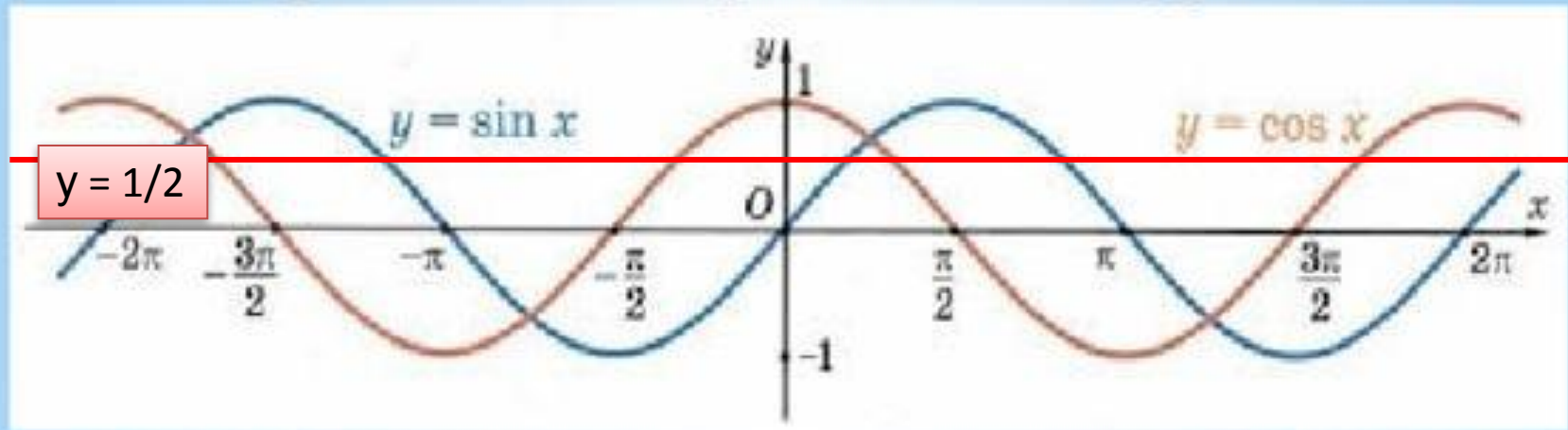


# Тригонометрические уравнения.

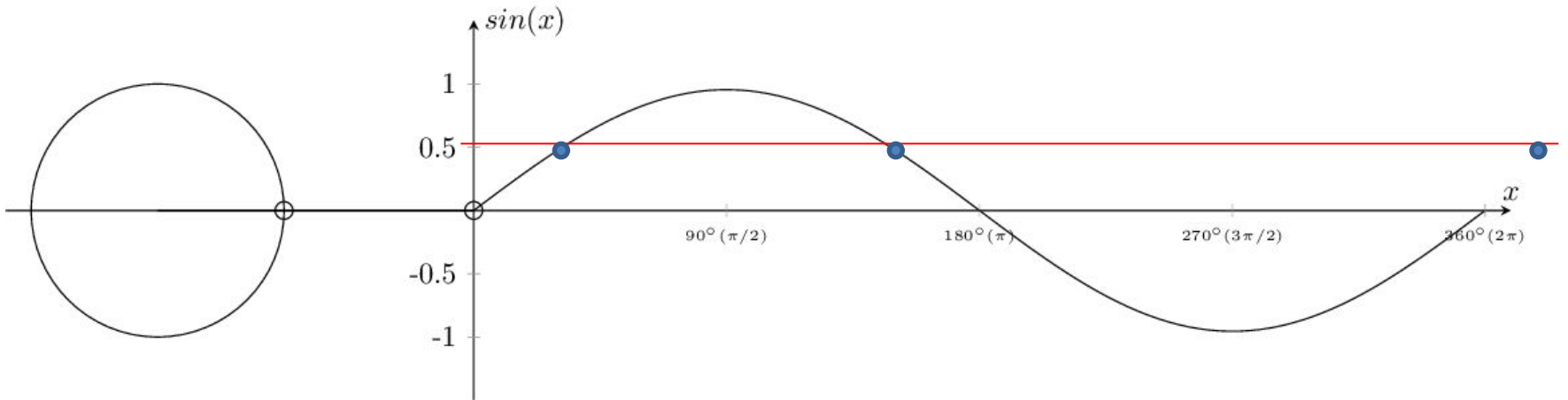
Урок №1

## Частные случаи.

# Тригонометрические функции



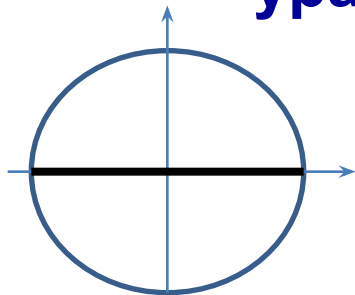
$$y = \sin x$$



# Частные случаи решения тригонометрических уравнений

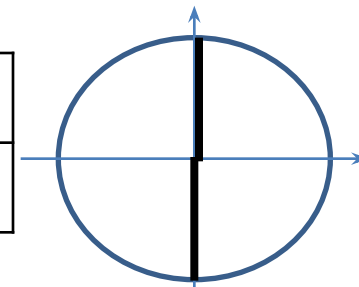
$\sin x = 0$

$x = \pi n$



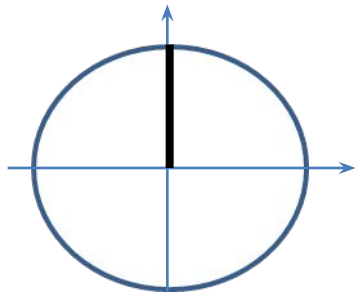
$\cos x = 0$

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



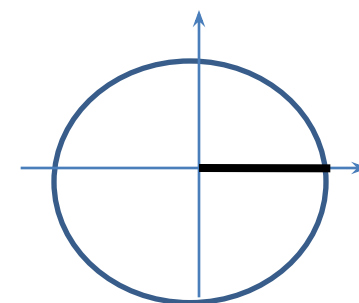
$\sin x = 1$

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



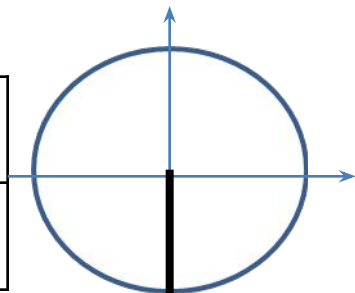
$\cos x = 1$

$x = 0 + 2\pi n$



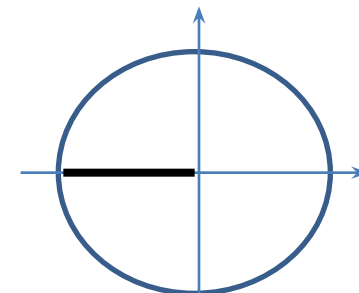
$\sin x = -1$

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



$\cos x = -1$

$x = \pi + 2\pi n$



# Домашнее задание:

Решить уравнения

1.  $\cos 2x = -1$

2.  $\sin 3x = 1$

3.  $\cos x/2 = 1$

4.  $\sin x/4 = -1$

5.  $\sin (x + \pi/4) = 0$