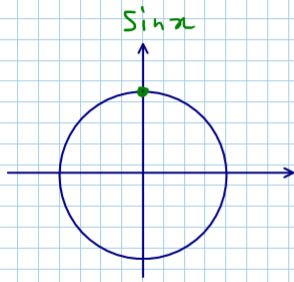
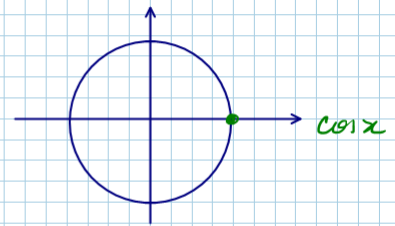


$$1) \sin x = 1$$



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

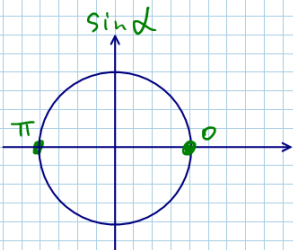
$$2) \cos x = 1$$



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

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

$$3) \sin 2x = 0$$

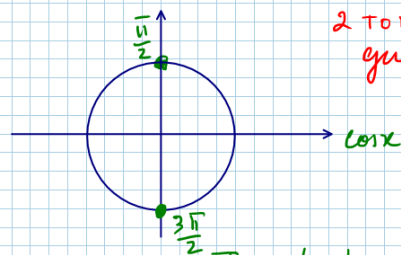


$$2x = 0 + \pi k, k \in \mathbb{Z}$$

$$2x = \pi k, k \in \mathbb{Z} \quad | :2$$

$$x = \frac{\pi k}{2}, k \in \mathbb{Z}$$

$$4) \cos 1,5x = 0$$



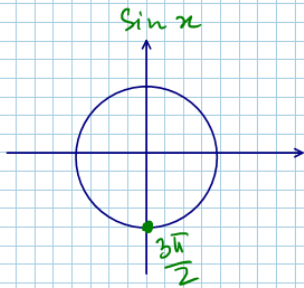
$$1,5x = \frac{\pi}{2} + \pi k, k \in \mathbb{Z} \quad | \cdot 2$$

$$3x = \pi + 2\pi k, k \in \mathbb{Z} \quad | :3$$

$$x = \frac{\pi}{3} + \frac{2\pi k}{3}, k \in \mathbb{Z}$$

1 точка:  $2\pi k$   
2 точки на  
геометрии:  $\pi k$

$$5) \sin \left( \frac{x}{3} + 5\pi \right) = -1$$



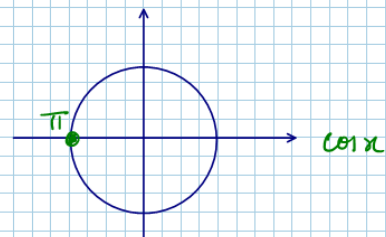
$$\frac{x}{3} + 5\pi = \frac{3\pi}{2} + 2\pi k, k \in \mathbb{Z}$$

$$\hookrightarrow \frac{x}{3} = \frac{3\pi}{2} - 5\pi + 2\pi k, k \in \mathbb{Z}$$

$$\frac{x}{3} = -\frac{7\pi}{2} + 2\pi k, k \in \mathbb{Z} \quad | \cdot 3$$

$$x = -\frac{21\pi}{2} + 6\pi k, k \in \mathbb{Z}$$

$$6) \cos \left( \frac{5\pi}{2} - 3x \right) = -1$$



$$\frac{5\pi}{2} - 3x = \pi + 2\pi k, k \in \mathbb{Z}$$

$$\hookrightarrow -3x = \pi - \frac{5\pi}{2} + 2\pi k, k \in \mathbb{Z}$$

$$-3x = -1,5\pi + 2\pi k, k \in \mathbb{Z} \quad | : -3$$

$$x = \frac{\pi}{2} - \frac{2\pi k}{3}, k \in \mathbb{Z}$$