

$$\arcsin^2 x + \arccos^2 x = 5P^2/4$$

$$(P/2 - \arccos x)^2 + \arccos^2 x = 5P^2/4$$

$$P^2/4 + 2\arccos^2 x - P\arccos x = 5P^2/4$$

$$\arccos x = t \quad t \in [0; P]$$

$$(2t - P)t = P^2$$

$$2t^2 - Pt - P^2 = 0$$

$$D = P^2 + 8P^2 = 9P^2$$

$$t_1 = (P + 3P)/4 = P \quad \text{--- подходит}$$

$$t_2 = (P - 3P)/4 = -P/2 \quad \text{- не подх}$$

$$\arccos x = P$$

$$x = -1$$

АРКИ УРАВНЕНИЯ03

$$\arcsin^2 x + \arccos^2 x = 5P^2/4$$