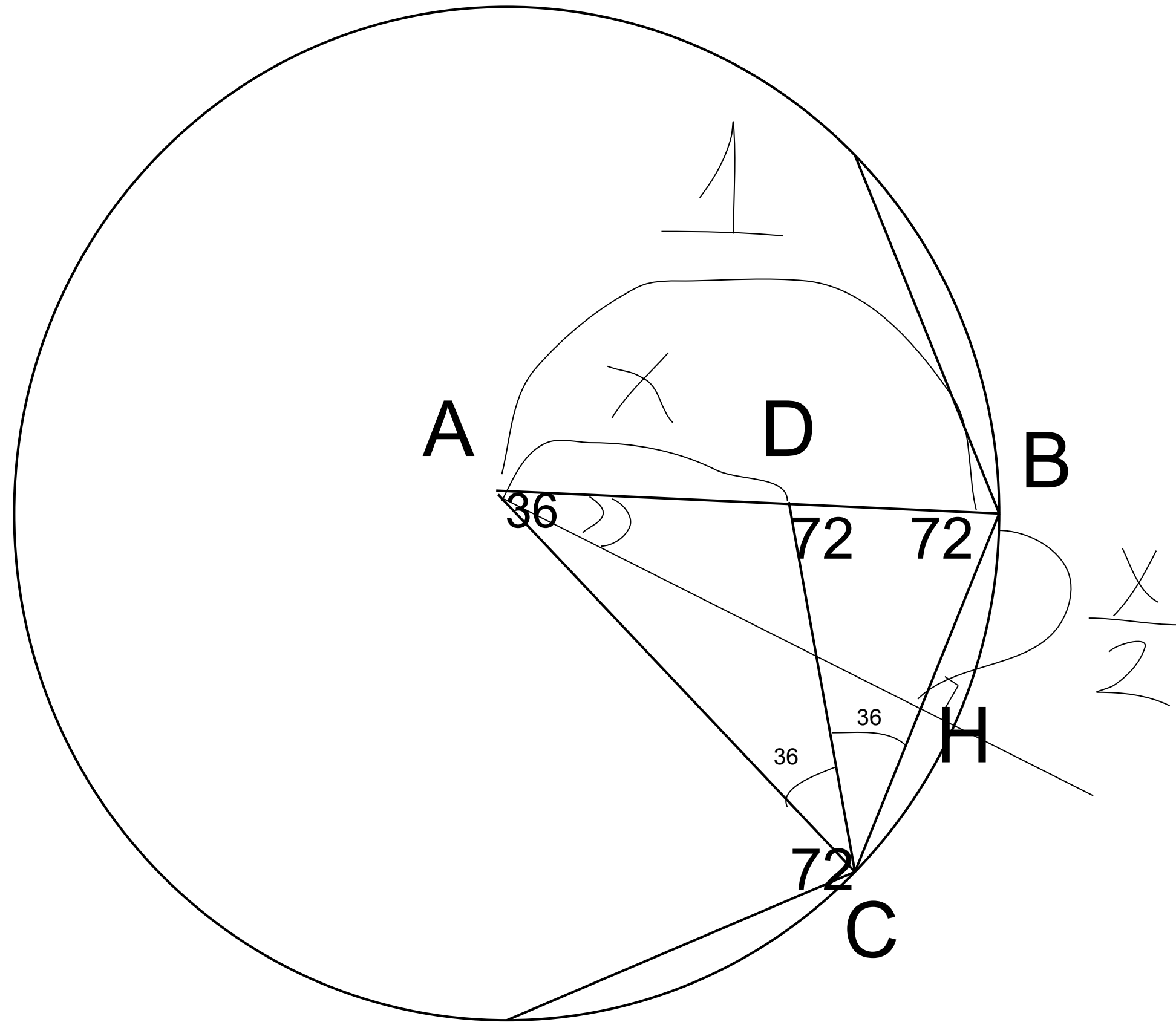


9,18,36,72 - sin,cos



правильный 10-и угольник со стороной 1

$$AD=x \Rightarrow DC=x \Rightarrow CB=x$$

в трAHC

$$\sin A/2 = BH/AB = x/2 / 1 = x/2 = \cos 72 =$$
$$= (-1 + \sqrt{5})/4 = \sin 18 = \cos 72$$

$$\sin^2 + \cos^2 = 1$$

$$AB/CB = CB/DB \quad 1/x = x/(1-x)$$

$$1-x = x^2$$

$$x^2 + x - 1 = 0$$

$$D = 1 + 4 = 5$$

$$x_1 = (-1 + \sqrt{5})/2$$

$$x_2 = (-1 - \sqrt{5})/2$$