



правильный 10-и угольник

to be continued...

$$\text{уг}A=36^\circ$$

$$\text{уг}B=\text{уг}C=72^\circ$$

$$ABC \sim DBC (?)$$

$$CB/CD=AC/BC$$

$$x/CD=AC/x$$

$$x/(1-x)=1/x$$

$$x^2=1-x$$

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

$$D=1+4=5$$

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

в трAHC

$$\sin A/2 = \sin 18^\circ = HC/AC = x/2 = \cos 72^\circ$$

$$x/2 = (-1+\sqrt{5})/4$$

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

9,18,36,72 - sin,cos