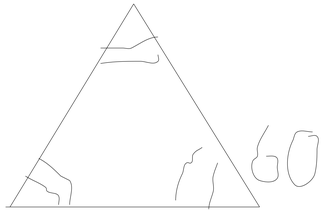
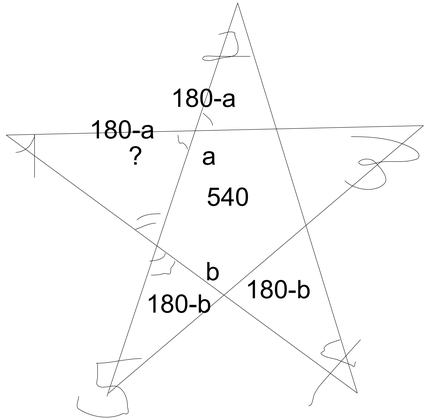
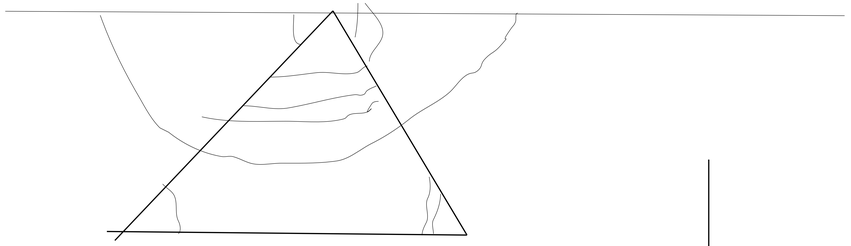
а) Найдите сумму углов произвольного треугольника
б) Найдитие сумму углов произвольного n-угольника
в) Самопересекающийся пятиугольник ABCDE имеет форму пятико-нечной звезды. Найдите сумму углов при "лучах"звезды.





a+b+c+d+e=540

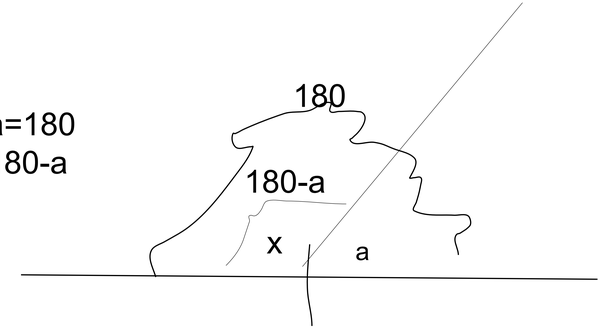
2(180-a)
2(180-b)
2(180-c)
2(180-d)
2(180-e)



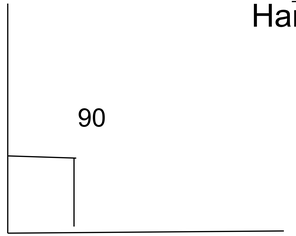
Накрест лежащие

W=900 - лишние=
=900-[2(180-a) +2(180-b)+
+2(180-c)+2(180-d)+2(180-e)]=
=900-[360-2a+360-2b+360-2c+
360-2d+360-2e]=900-[360*5-
2a-2b-2c-2d-2e]=900-[360*5-
2(a+b+c+d+e)]=900-[360*5-2*
540]=180*5 - [180*2*5 - 2*180*3]=
=5x - [2*5*x - 2*3x]=5x-4x=1x=180

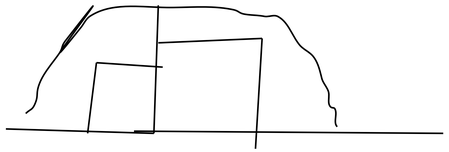
x+a=180
x=180-a

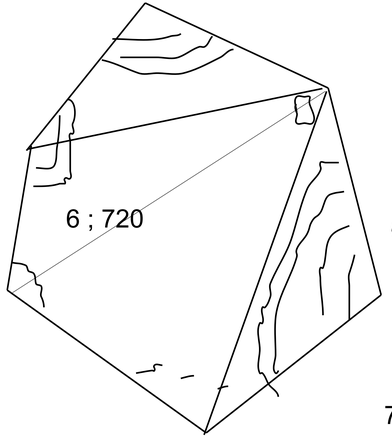


развернутый

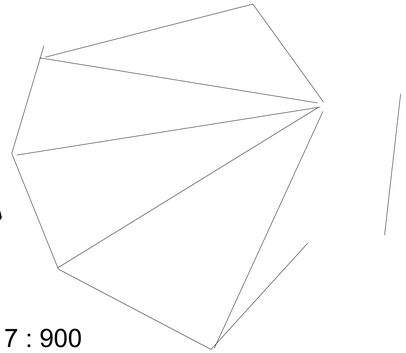


прямой





n : (n-2)*180



7 : 900