



UA

Area of a triangle using Herons formula

! given length of sides: a b c ! area = sqrt(p * p-a * p-b * p-c)

! where p = (a + b + c)/2 is perimeter

```
: triangle-area ( a b c -- area )
 3dup + + 2 /
                            ! a b c p
 [ swap - ] keep [ rot ] dip ! b p-c a p
  [ swap - ] keep [ rot ] dip ! p-c p-b a p
                              ! p-с p-b p-а р
 * * * sqrt ;
```

Area of a triangle using Herons formula

LOCALS

Area of a triangle using Herry's formula

```
! given length of sides:
 area = sqrt(p * p)
 where p = (a + b + c)/2 is permeter
: triangle-area
 3dup + + 2
                              abcp
           keep [ rot
                        dip!p-cp-bap
   swap (-)
                [ ro
            keep
                             ! p-с p-b p-a p
            keep
       sart
```