

LOCALS

Area of a triangle using Heron's 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  
  [ swap - ] keep      ! p-c p-b p-a p  
  * * * sqrt ;
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