

# LOCALS

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Area of a triangle using Heron's formula

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! 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 [ rot ] dip ! p-c p-b p-a p
  * * * sqrt ;
```

Area of a triangle using Herons formula  
( with locals )