TI-83 Program To Find Area Of A Triangle

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1 Introduction

Here we present a program to compute the area of a triangle using the coordinates of it's vertices A, B and C.

2 Code

```
ClrHome
Disp "Area Of A Triangle" Input "A:X:",A
Input "A:Y:",B
Input "B:X:",C
Input "B:Y:",D
Input "C:X:",E
Input "C:Y:",F
```

$(\sqrt{(C-A)^2) + (D-B)^2}) \to$ H

$(\sqrt{(E-C)^2) + (F-D)^2}) \to$ I

((G+H+I)/(2))→S

$(\sqrt{(S)*(S-G)*(S-H)*(S-I)}) \to$ J

```
Disp "AREA:",J
Pause
```