

Triangle Areas

You are given the x-y coordinates for the vertices of two right triangles. One of the triangles is contained completely within the other. Your task is to determine the area of the larger triangle that does not contain the smaller triangle.

Input

- One Integer n , the number of test cases
- One line with six integers $x1, y1, x2, y2, x3,$ and $y3$ the coordinates of the vertices of the larger triangle.
- One line with six integers $x4, y4, x5, y5, x6,$ and $y6$ the coordinates of the vertices of the smaller triangle.
- It is guaranteed that the smaller triangle will be contained within the larger triangle
- It is guaranteed that both triangles will be right triangles.

Output

- Output the area of each of the the larger triangles that is *not* contained within their respective smaller triangles, rounded to the nearest 0.1

Sample Input

```
2
1 1 1 12 8 12
2 2 2 3 7 2
```

```
1 2 1 12 9 2
3 3 3 5 8 3
```

Sample Output

```
36.0
35.0
```