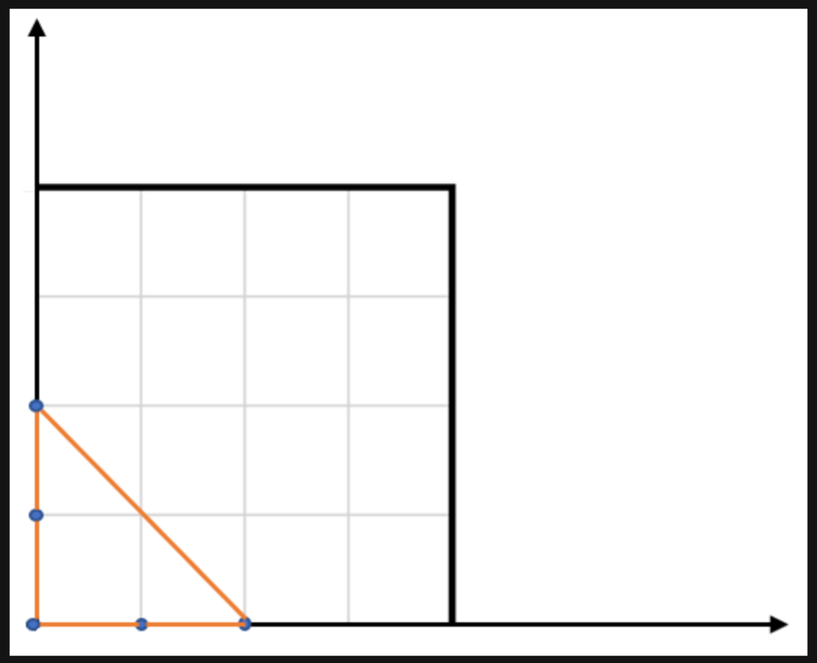
812. Largest Triangle Area

Description

Given an array of points on the **X-Y** plane `points` where `points[i] = [x_i, y_i]`, return *the area of the largest triangle that can be formed by any three different points*. Answers within `10^-5` of the actual answer will be accepted.

Example 1:



```
Input: points = [[0,0],[0,1],[1,0],[0,2],[2,0]]
Output: 2.00000
Explanation: The five points are shown in the above figure. The red triangle is the largest.
```

Example 2:

```
Input: points = [[1,0],[0,0],[0,1]]
Output: 0.50000
```

Constraints:

- `3 <= points.length <= 50`
- `-50 <= x_i, y_i <= 50`
- All the given points are **unique**.