TEST CASES:

1. I am giving 10 points as inputs which will cover all cases

So n=9

(-5,3),(-2,-1), (-1,0), (0,0), (1,1),(3,4),(6,0),(9-4),(15,4),(20,-2)

Input format: enter inputs line by line

9

-5

3

-2

-1

-1

0

0

0

1

1

3

4

6

0

9

-4

15

4

20

-2

OUTPUT:42.08333206

EXPECTED OUTPUT: 42.083333333