

Ci Hui Minh xfgoc

Papermeter points $I = \text{internal points}$ $A = \text{area}$ (P, I, A)

P	I	A
3	0	$\frac{1}{2}$
4	0	1
5	0	$1\frac{1}{2}$
6	0	2
7	0	$2\frac{1}{2}$
8	0	3
9	0	$3\frac{1}{2}$
10	0	4
11	0	$4\frac{1}{2}$
12	0	5

across one column $(I \text{ increases by } 1)$
 area $(A) + \text{unit}^2$
 down one row $(A \text{ increases by } +\frac{1}{2} \text{ units}^2)$
 $(P \text{ increases by } 1)$

Refer to diagrams in pages 2 & 3

- $P \geq 3$ because you need 3 points to form an area (2 points form a line)
- Minimum area is $\frac{1}{2} \text{ units}^2$ when $P=3$ and $I=0$
- For a given P : $a_0 + |x \cdot I| \text{ value} = A$, eg: $a_{10} = \frac{1}{2}$, eg: $a_{10} = A$, 1st value

Pick's Theorem

P	I	A
3	3	$3\frac{1}{2}$
4	3	4
5	3	$4\frac{1}{2}$
6	3	5
7	3	$5\frac{1}{2}$
8	3	6
9	3	$6\frac{1}{2}$
10	3	7
11	3	$7\frac{1}{2}$
12	3	8

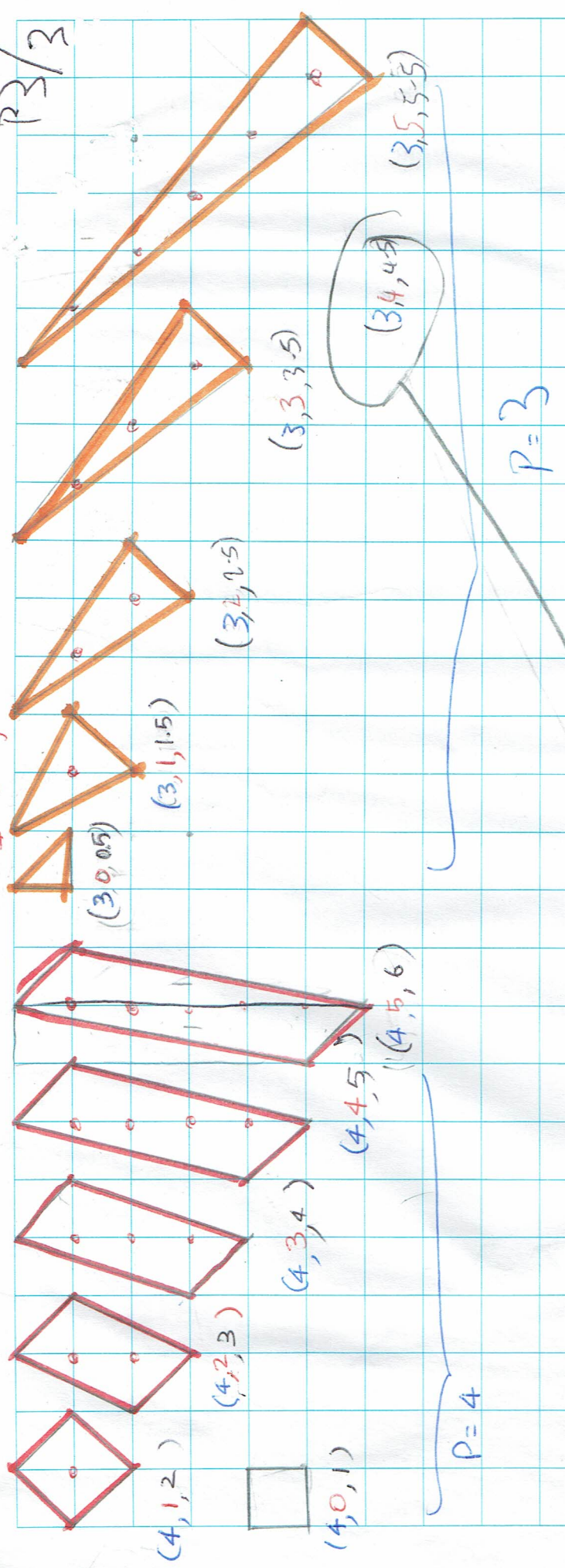
I predict

P	I	A
3	5	$5\frac{1}{2}$
4	5	6
5	5	$6\frac{1}{2}$
6	5	7
7	5	$7\frac{1}{2}$
8	5	8
9	5	$8\frac{1}{2}$
10	5	9
11	5	$9\frac{1}{2}$
12	5	10

1st Area a_0 and 3rd unit
 $a_0 = 0.5$ Area Series
 $d = 1$
 $T_n = a_0 + nd$

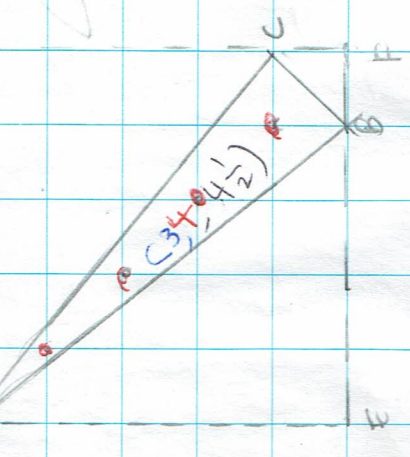
P3/3

I = changes



Calculation Steps

$$\begin{aligned} \Delta AOC &= \square NEFD - \triangle AFB - \triangle BFC - \triangle CDF \\ &= 5 \times 5 - (5 \times 4 \times \frac{1}{2}) \times 2 - (\frac{1}{2} \times 1 \times 1) \\ &= 4\frac{1}{2} \end{aligned}$$



10mm Squares