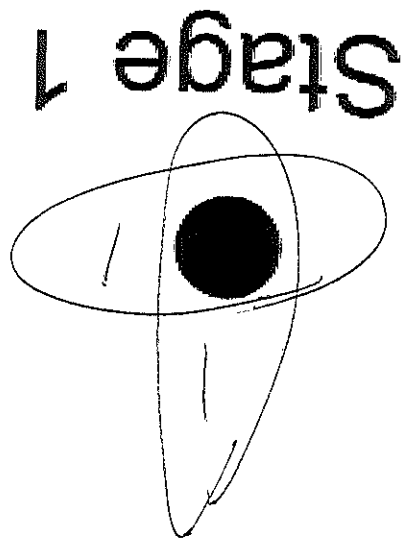
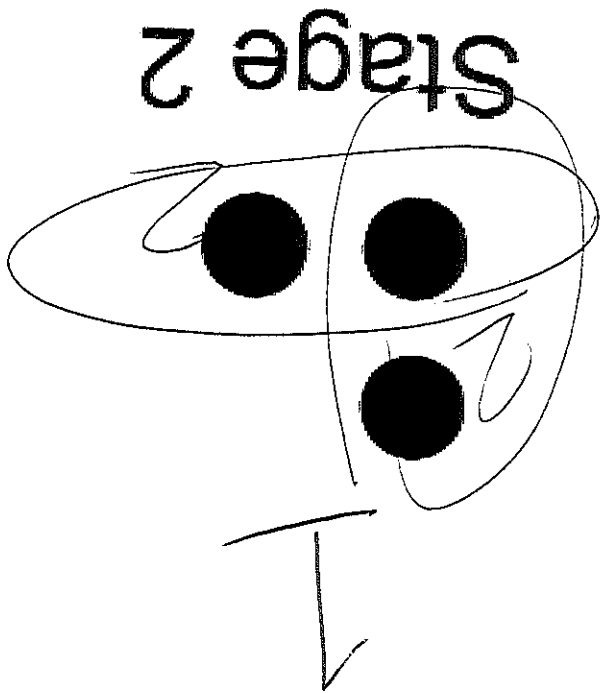
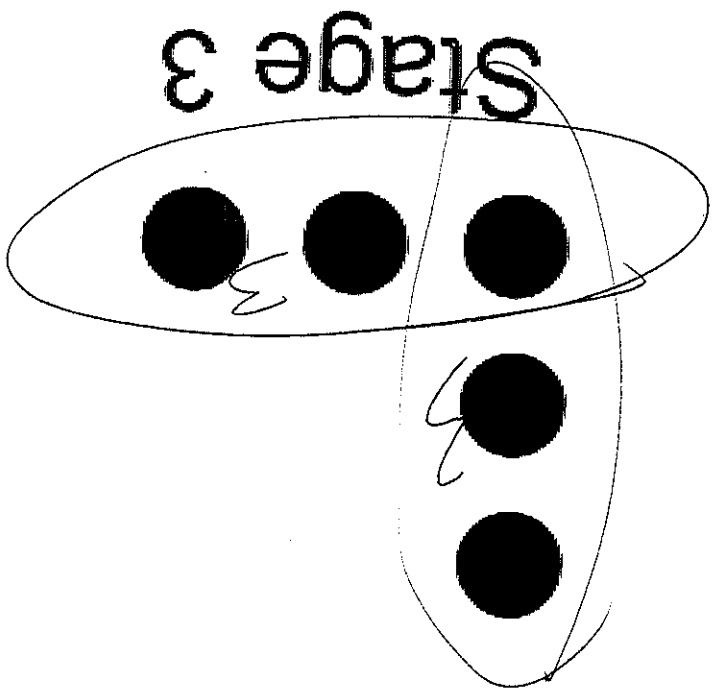


I see 2 copies of "n" and 1 overlap in each pattern.  $2n-1$ .

X	1	2	3	4	5	7	9	10	100	n
y	1	3	5	7	9	11	13	15	17	$2n-1$

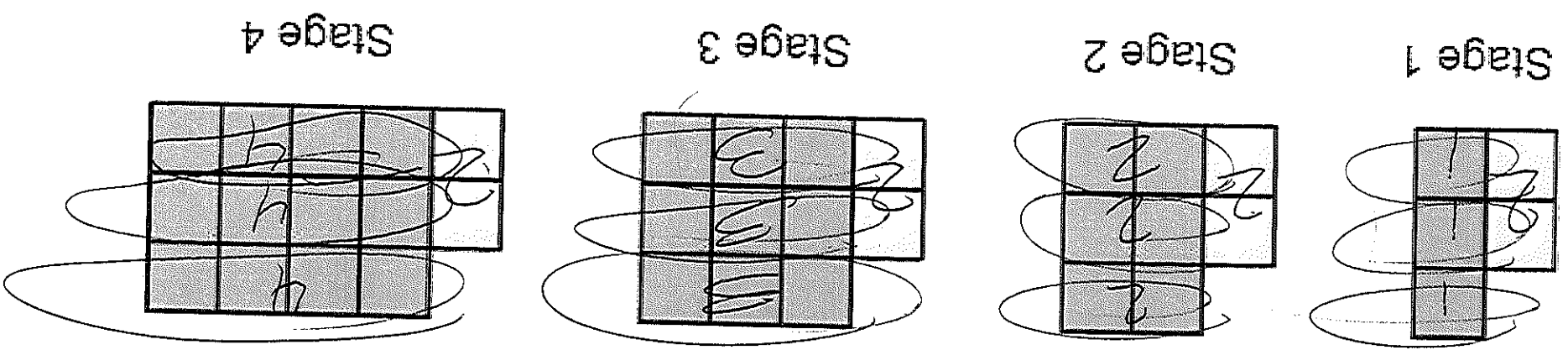
$\xrightarrow{+2}$        $\xrightarrow{+2}$



I see 3 copies of "n" and 2 constant blocks in each.  $3n + 2$

X	1	2	3	4	5	10	100	n
y	5	8	11	14	17	32	302	$3n + 2$

+3  
 +3



2

height is 3.  $3(n+2) = 3n+6$

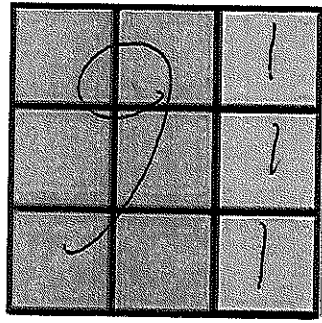
OP: I see the width is  $n+2$  and the

So  $3n+6$ .

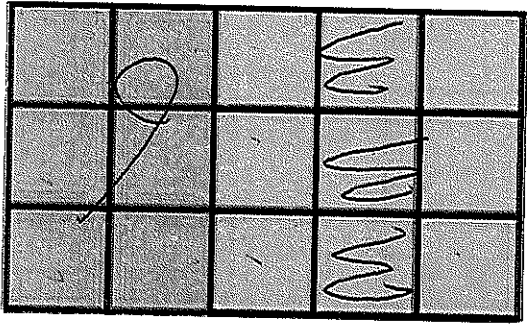
I see 3 copies of "n" and 6 constants

+3  
+3

x	1	2	3	4	5	10	36	306	$3n+6$
1	1	2	3	4	5	10	36	306	$3n+6$
2	1	2	3	4	5	10	36	306	$3n+6$
3	1	2	3	4	5	10	36	306	$3n+6$
4	1	2	3	4	5	10	36	306	$3n+6$
5	1	2	3	4	5	10	36	306	$3n+6$
10	1	2	3	4	5	10	36	306	$3n+6$
36	1	2	3	4	5	10	36	306	$3n+6$
306	1	2	3	4	5	10	36	306	$3n+6$
$3n+6$	1	2	3	4	5	10	36	306	$3n+6$

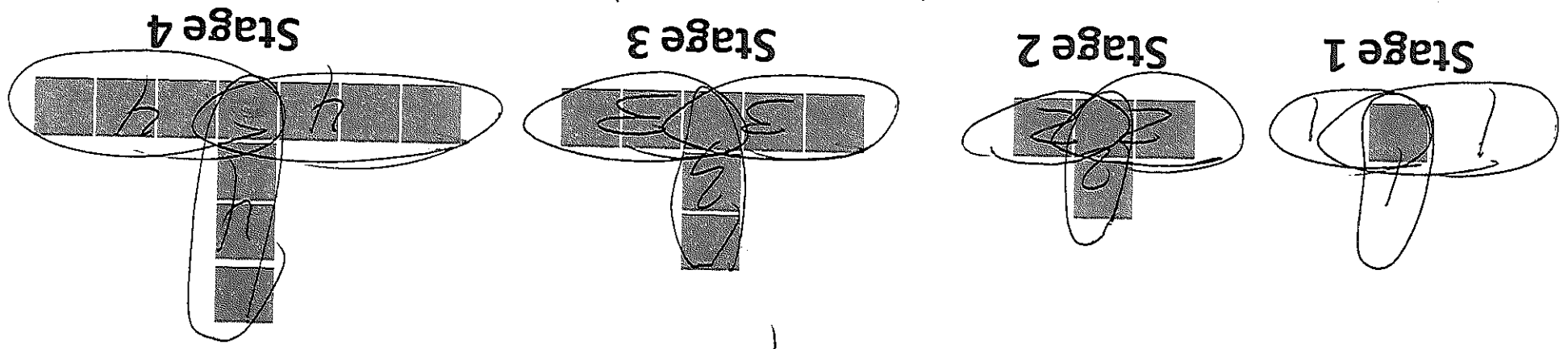


3



I see 3 copies of "n" with 2 overlaps. 3n-2

x	1	2	3	4	5	10	28	298	3n-2
y	1	4	7	10	13	16	100	n	



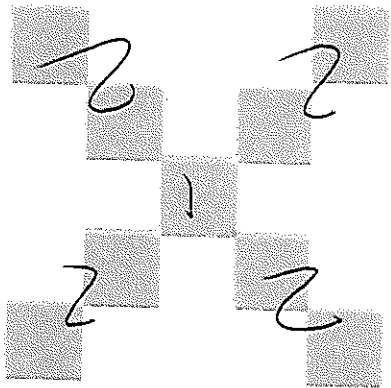
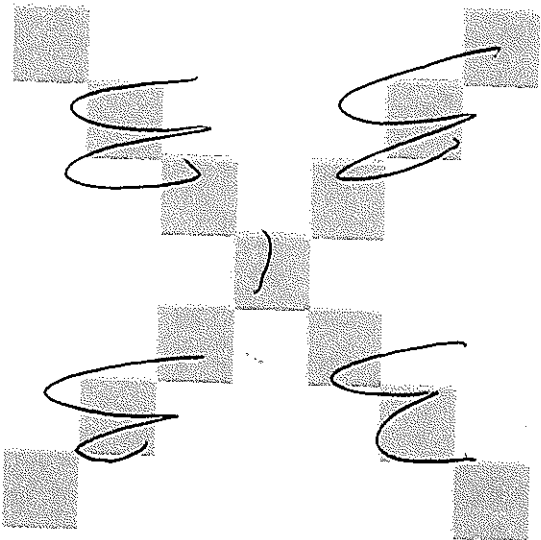
4

I see 2 copies of "n" and 1 constant, so  $2n+1$ .

X	1	2	3	4	5	6	7	8	9	10
Y	5	9	13	17	21	25	29	33	37	41

Pattern 1      Pattern 2      Pattern 3

Arrows indicate differences of +4 between consecutive Y values.



5

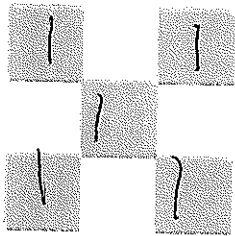
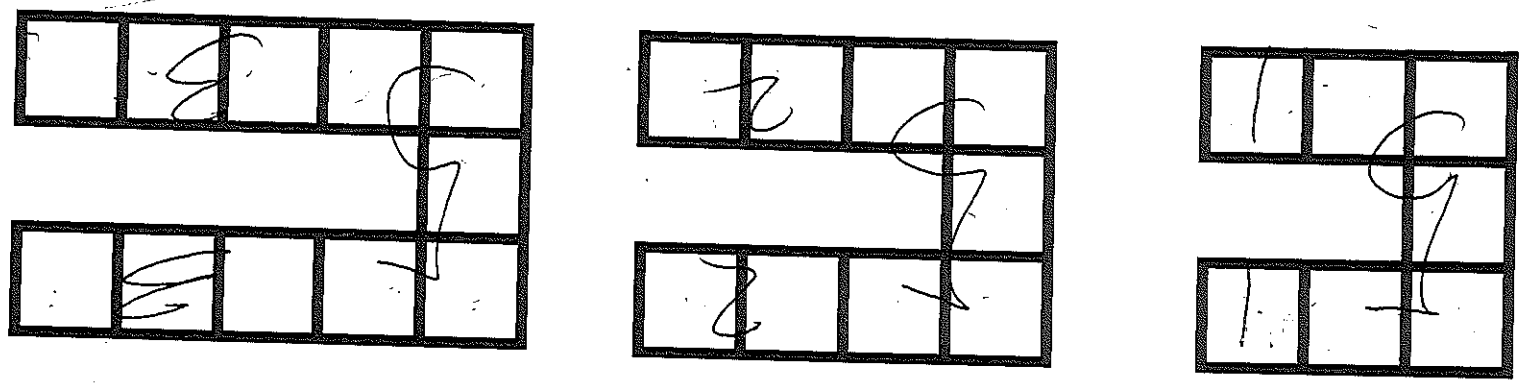


Figure 1  
 X | 1 | 2 | 3 | 4 | 5 | 10 | 100 | n  
 y | 7 | 9 | 11 | 13 | 15 | 25 | 205 | 2n+5

Figure 2  
 I see 2 copies of "n" and 3 constants. So 2n+5

Figure 3



is 2. So  $2(n+1) = 2n+2$ .

I see 2 copies of  $n$  and 2 constants,  $2n+2$   
 OR: I see width is  $n+1$  and height

X	1	2	3	4	5	10	10	10	n
Y	4	6	8	10	12	22	22	22	$2n+2$

Fig. 1

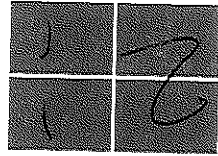


Fig. 2

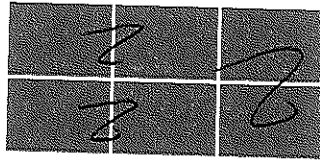
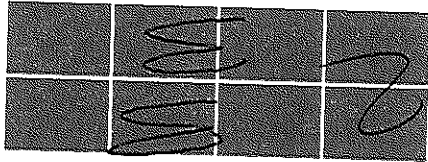
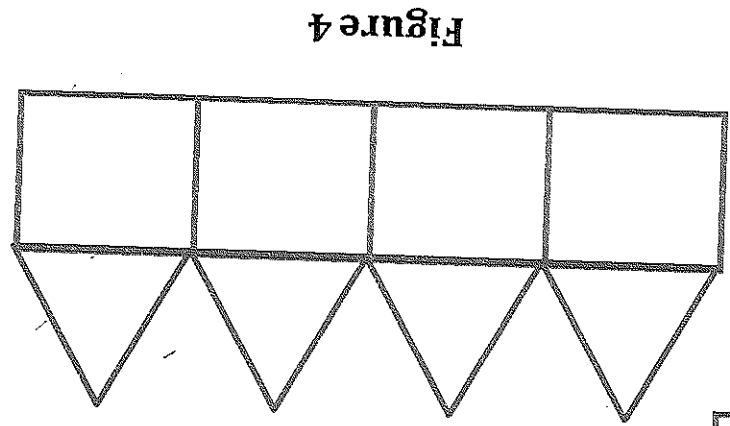
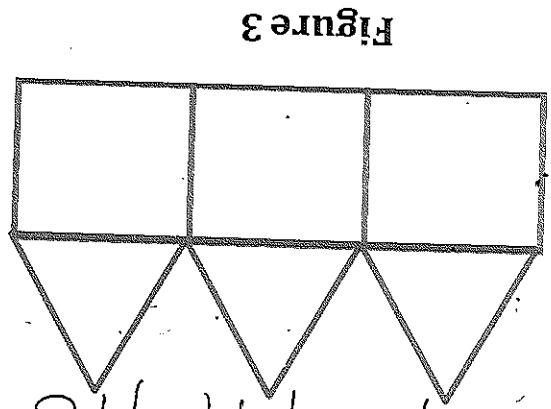
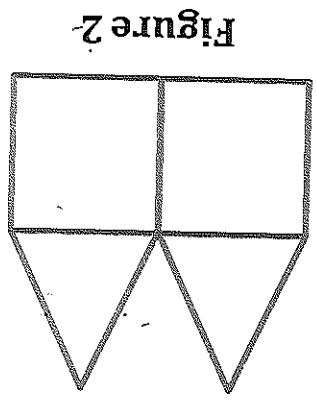
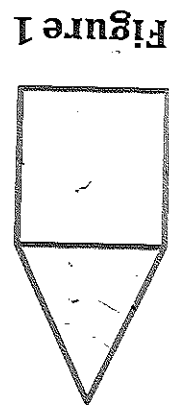


Fig. 3



7



Count # of edges

3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

8



9

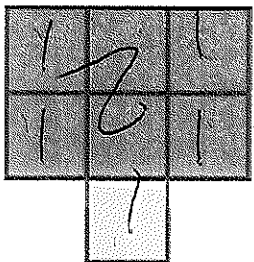


Figure 1

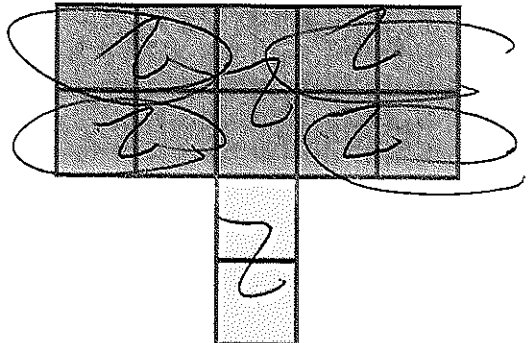


Figure 2

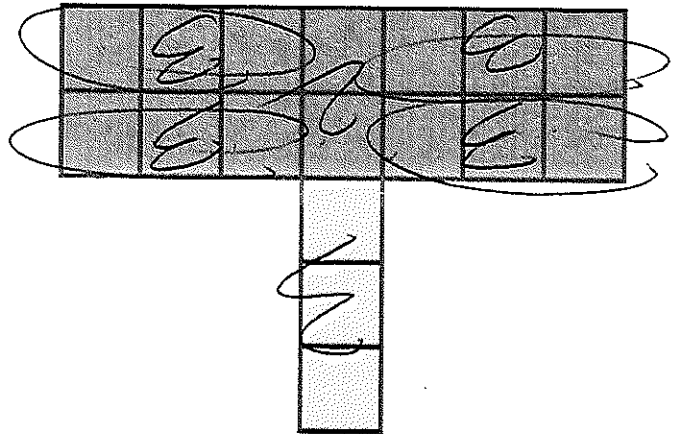
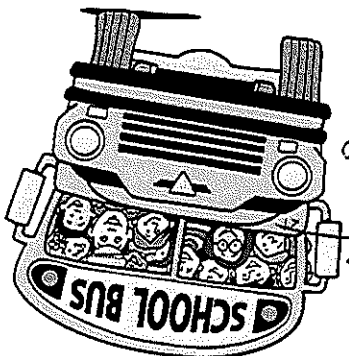


Figure 3

$x$	1	2	3	4	5	10	100	$n$
$y$	1	2	3	4	5	10	100	$n$

I see 5 copies of "n" and 2 constants.  $5n + 2$

growth  
 ↓  
 $y = 20 \cdot n + 100$   
 ↓  
 start



$y$	120	140	160	180	200	220	240	260
$x$	1	2	3	4	5	10	100	200

John wants to save up for a school tour which will happen at the end of the school year. He speaks to his parents about it and they agree that he can get a part-time job to help him afford the trip. His parents give him €100 to start him off and each week he saves €20 of his wages.