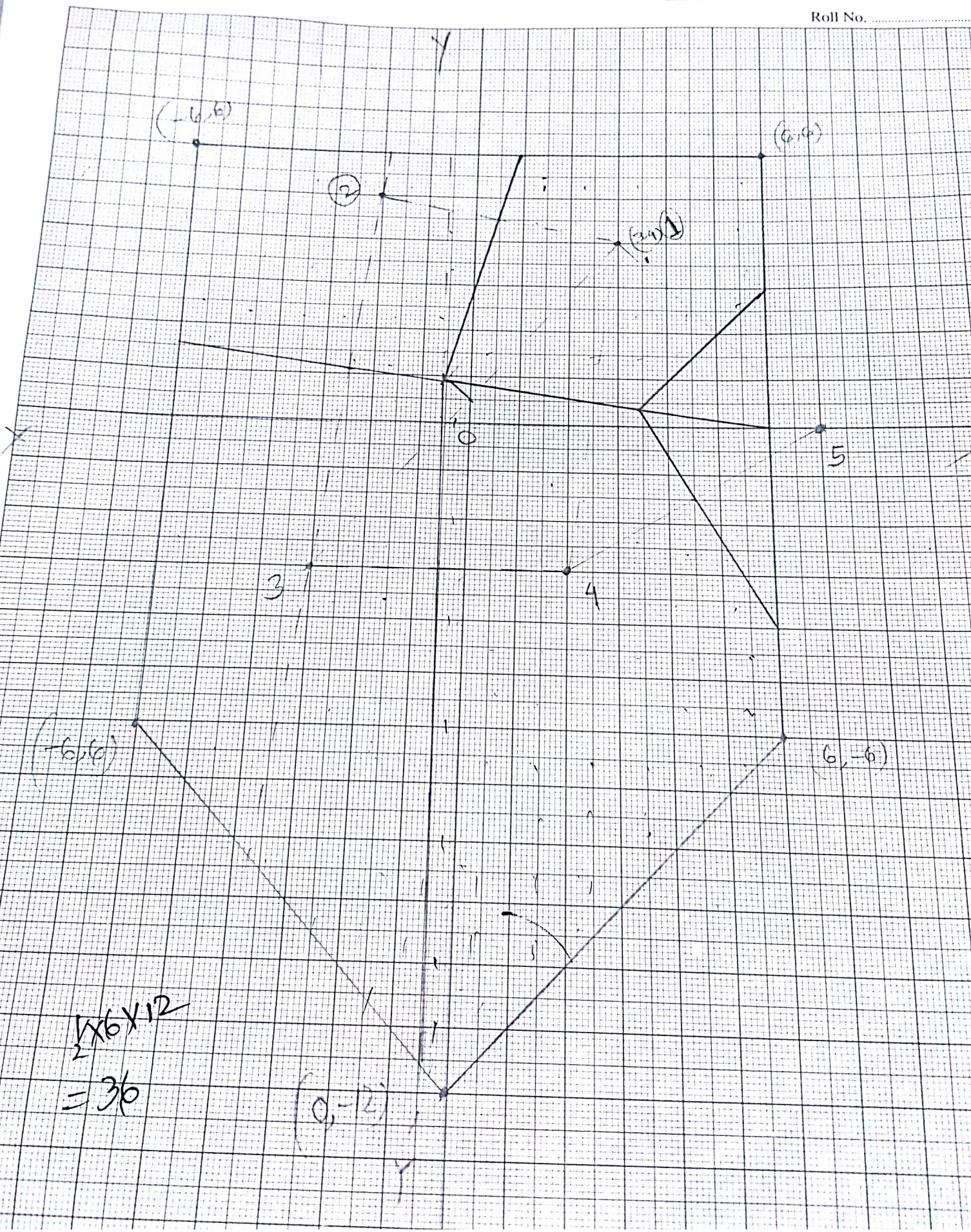
4

Q-7 Let,

time	0	4	8	12	16
Qadmd	0	80	150	75	0

1 Time	2 Unit HG 4hr	3 Succession 4th	4 Lagged by 7hr	3-4	5/(7/4)
0	0	0		0	0
1		20		20	11.43
2		40		40	22.86
3		60		60	34.29
4	80	80		80	45.71
5		117.5		117.5	67.14
6		155		155	88.57
7		192.5	0	192.5	110
8	150	230	20	210	120
9		248.75	40	208.75	119.285
10		267.5	60	207.5	118.57
11		286.25	80	206.25	117.86
12	75	305	117.5	187.5	107.14
13		305	155	150	85.71
14		305	192.5	112.5	64.29
15		305	230	75	42.86
16	0	305	248.75	57.25	32.71
17		305	267.5	37.5	21.43
18		305	286.25	18.75	10.71
19		305	305	0	0
20		305	305	0	0
21		305	305	0	0
22		305	305	0	0
23		305	305	0	0

Roll No. .....



$\frac{1}{2} \times 6 \times 12$

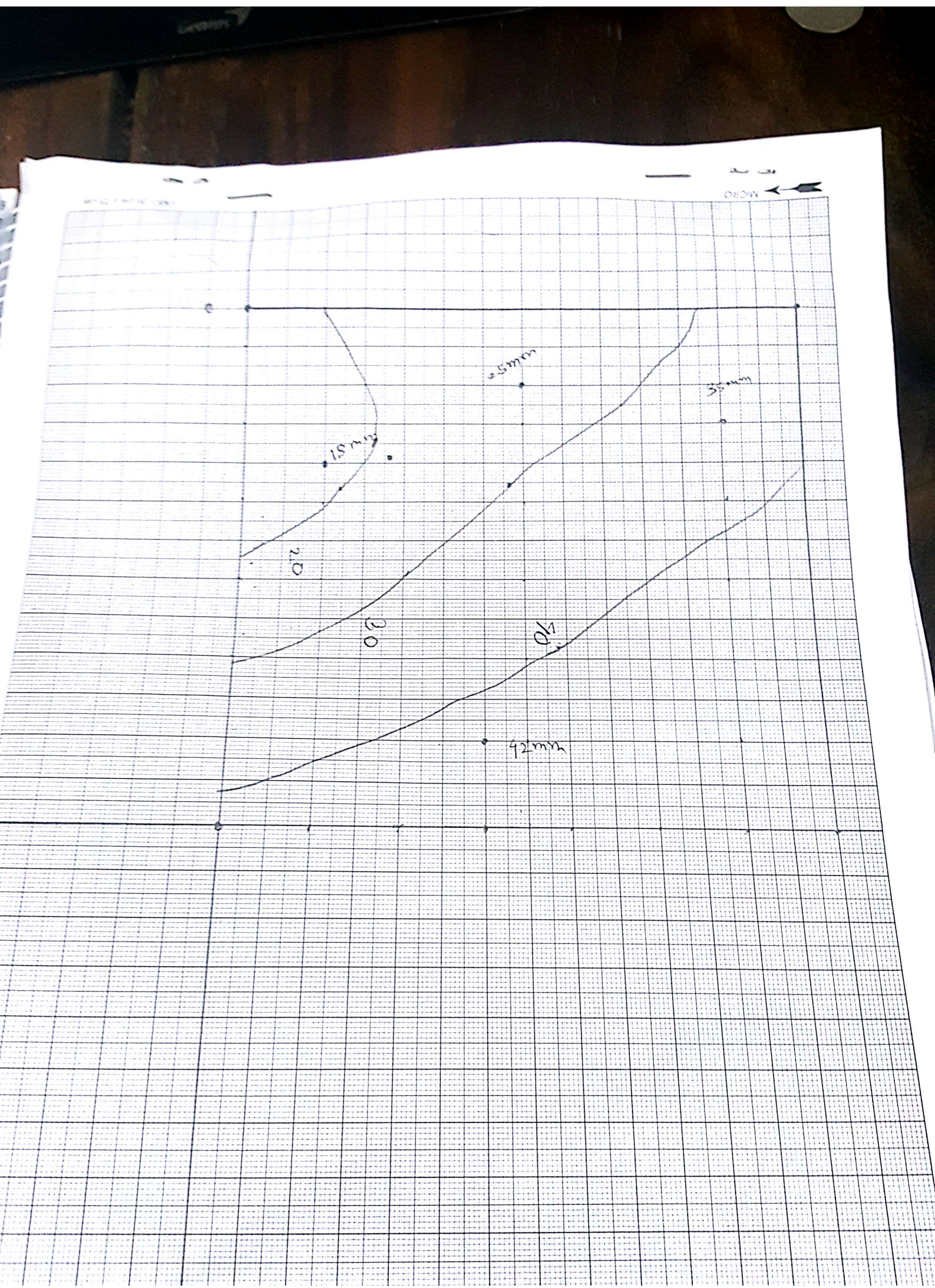
$= 36$

H Batch

gauge	intensity	Area	intensity x area
1	60	27	1620
2	40	30	1200
3	100	56	5600
4	50	58	2900
5	90	9	810

$$\text{average rainfall} = \frac{1620+1200+5600+2900+810}{180}$$

$$= 67.39 \text{ mm}$$



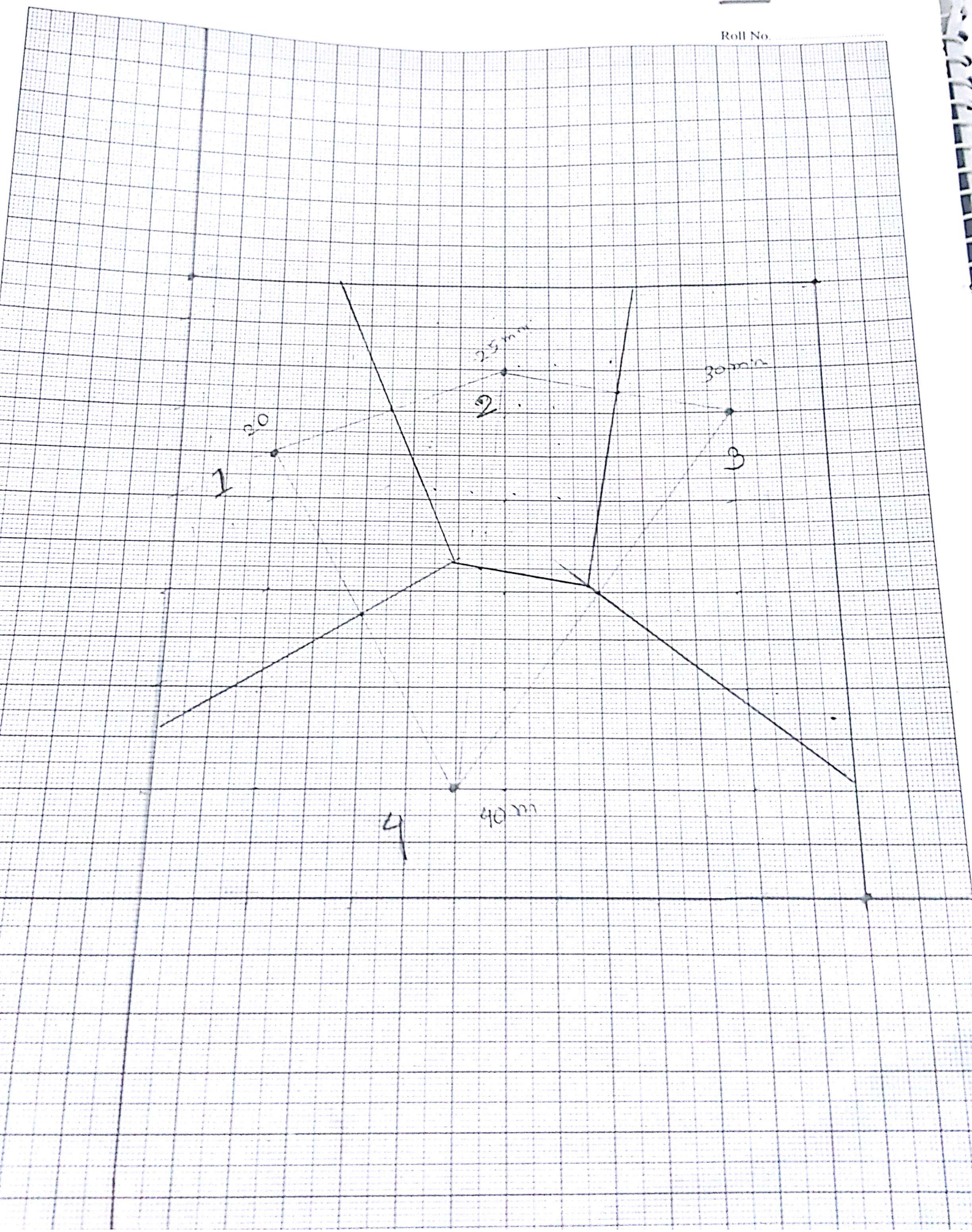
10 marks

isohytes	area	average rainfall	rainfall volume
	15.5	19	294.5
20	43	25	1075
30	62	35	2170
40	61.5	41	2521.5
	182		

average rainfall = $\frac{294.5+1075+2170+2521.5}{182}$

$= 27.99$ cm

Roll No.



9 batch

location	rainfall	Area	rain fall x area
1 (239) 1	20	38.5	770
7 2	25	30	750
3	30	41.5	1245
9	40	72	2880

average rainfall = $\frac{770+750+1245+2880}{182}$

= 31.02 mm