

2025

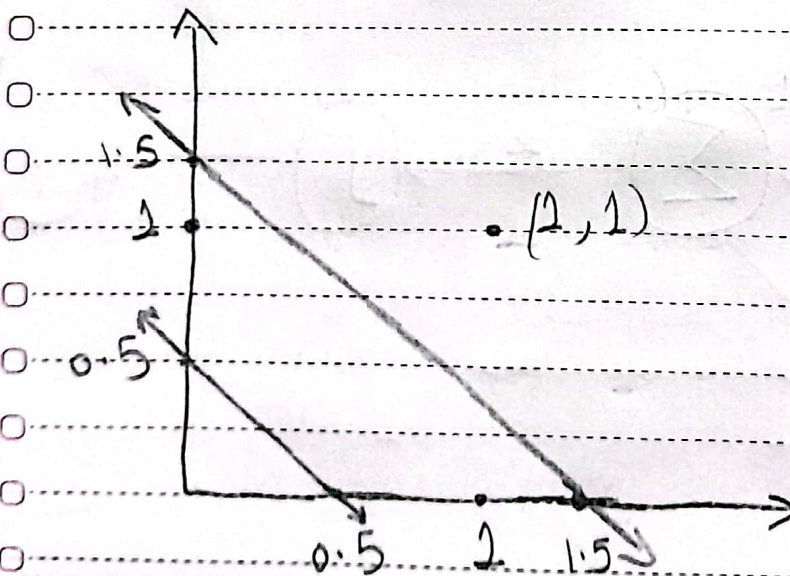
25
December
Thursday

٢٥
ديسمبر
الخميس

٥ رجب ١٤٤٧ هـ

2-XOR

X_1	X_2	$Y = X_1 \oplus X_2$
0	0	0
0	1	1
1	0	1
1	1	0



2025

December ديسمبر

Wednesday

الأربعاء

٤ رجب ١٤٤٧ هـ

$$Z_1 = X_1 + X_2 - 0.5$$

$$Z_2 = X_1 + X_2 - 1.5$$

X_1 X_2 Z_1 Z_2

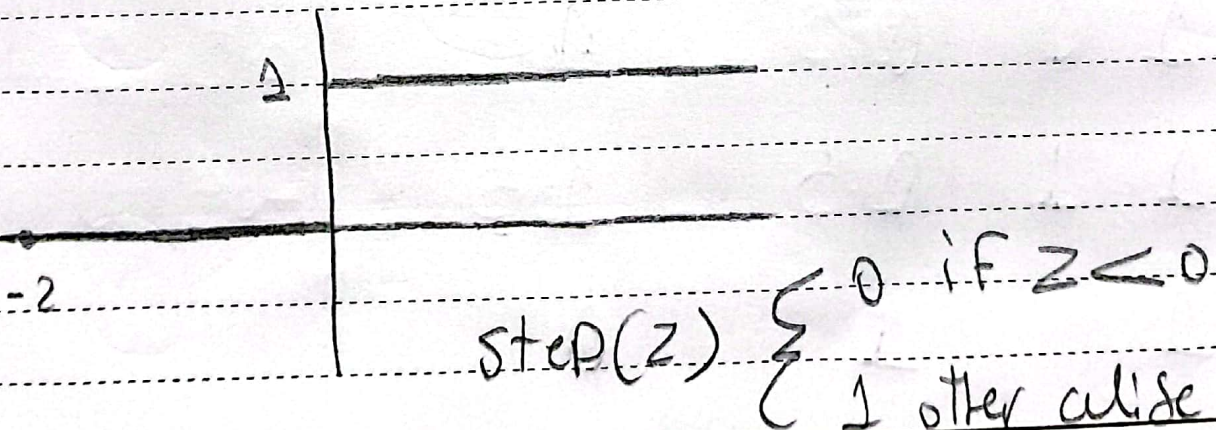
0 0 -0.5 -1.5

0 1 0.5 -0.5

1 0 -0.5 -0.5

1 1 1.5 0.5

Step activation



Dec 1 2 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
M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W

Jumada Al-Akhar - Rajab

2025

23

December
Tuesday

٢٣

ديسمبر
الثلاثاء

٢ رجب ١٤٤٧ هـ

X_1	X_2	Z_1	Y_1	target	Z_2	Y_2	target
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0	0	-0.5	0	0	-1.5	0	0
---	---	------	---	---	------	---	---

0	1	0.5	1	1	-0.5	0	1
---	---	-----	---	---	------	---	---

1	0	0.5	1	1	-0.5	0	1
---	---	-----	---	---	------	---	---

1	1	1.5	1	0	0.5	1	0
---	---	-----	---	---	-----	---	---

Y_1	Y_2	Target
-------	-------	--------

0	0	0
---	---	---

1	0	1
---	---	---

1	0	1
---	---	---

1	1	0
---	---	---

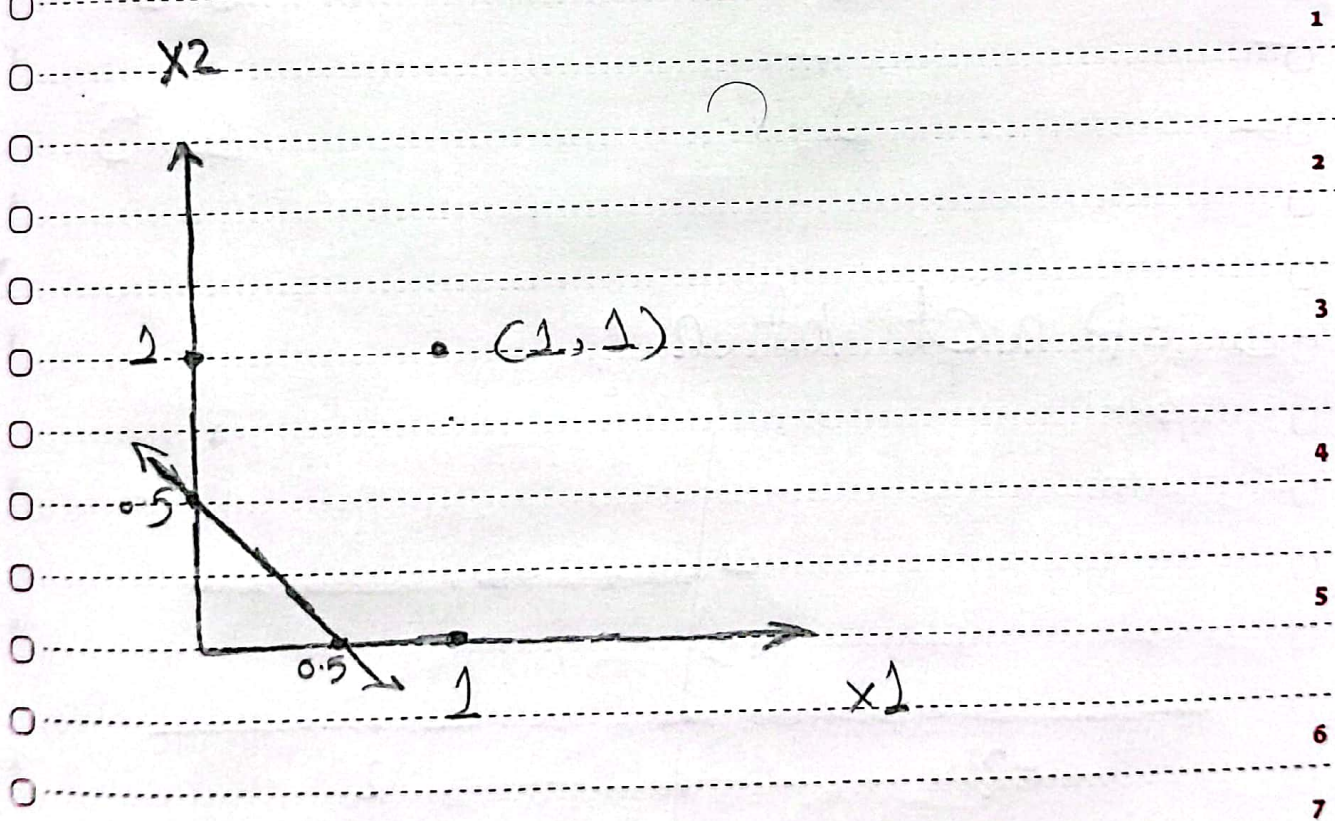
2025

December
Sundayديسمبر
الأحد

٨ رجب ١٤٤٧ هـ

$$Y = X_1 \text{ OR } X_2$$

X_1	X_2	
0	0	9
0	1	10
1	0	11
1	1	12



Dec	1	2	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
	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	1	2	3	4	5	6	7	8	9	10	11

Jumada Al-Akhar - Rajab

22

٢٢

2025

December
Mondayديسمبر
الاثنين

٢ رجب ١٤٤٧ هـ

8

9

10

11

12

1

2

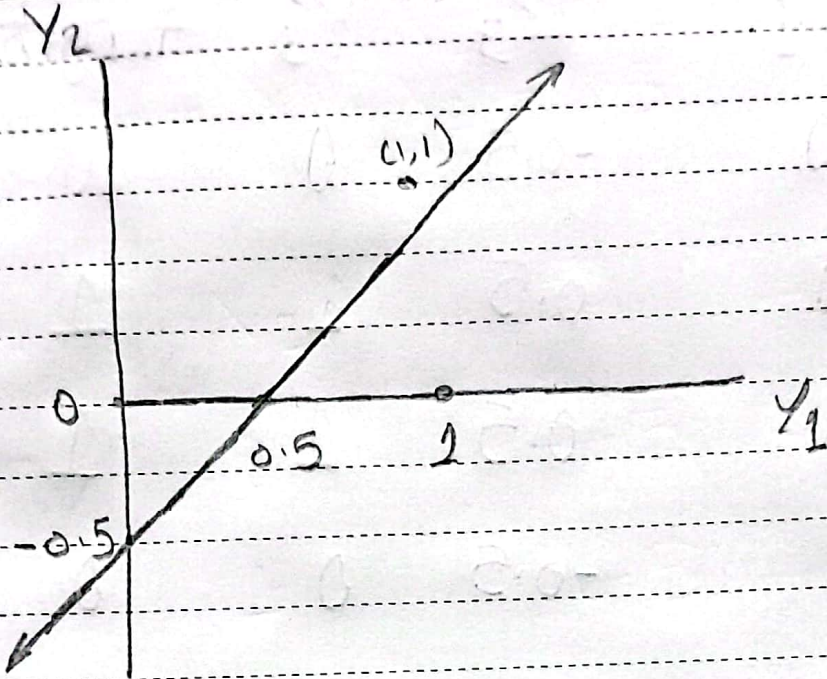
3

4

5

6

7


 y_1 y_2 z_3

0 0 -0.5

1 0 0.5

1 0 0.5

1 1 -0.5

Dec	1	2	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
	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	1	2	3	4	5	6	7	8	9	10	11

Jumada Al-Akhar - Rajab

2025

21
December
Sunday

٢١
ديسمبر
الأحد

١٤٤٧هـ

Y_1	Y_2	Z_3	Y_3	target	
0	0	-0.5	0	0	8
1	0	0.5	1	1	9
1	0	0.5	1	1	10
1	0	0.5	1	1	11
1	1	-0.5	0	0	12

X_1	X_2	Z_1	Y_1'	Z_2	Y_2'	Z_3	Y_3'	target	
0	0	-0.5	0	-1.5	0	-0.5	0	0	1
0	1	0.5	1	-0.5	0	0.5	1	1	2
1	0	0.5	1	-0.5	0	0.5	1	1	3
1	1	1.5	1	0.5	1	-0.5	0	0	4

6

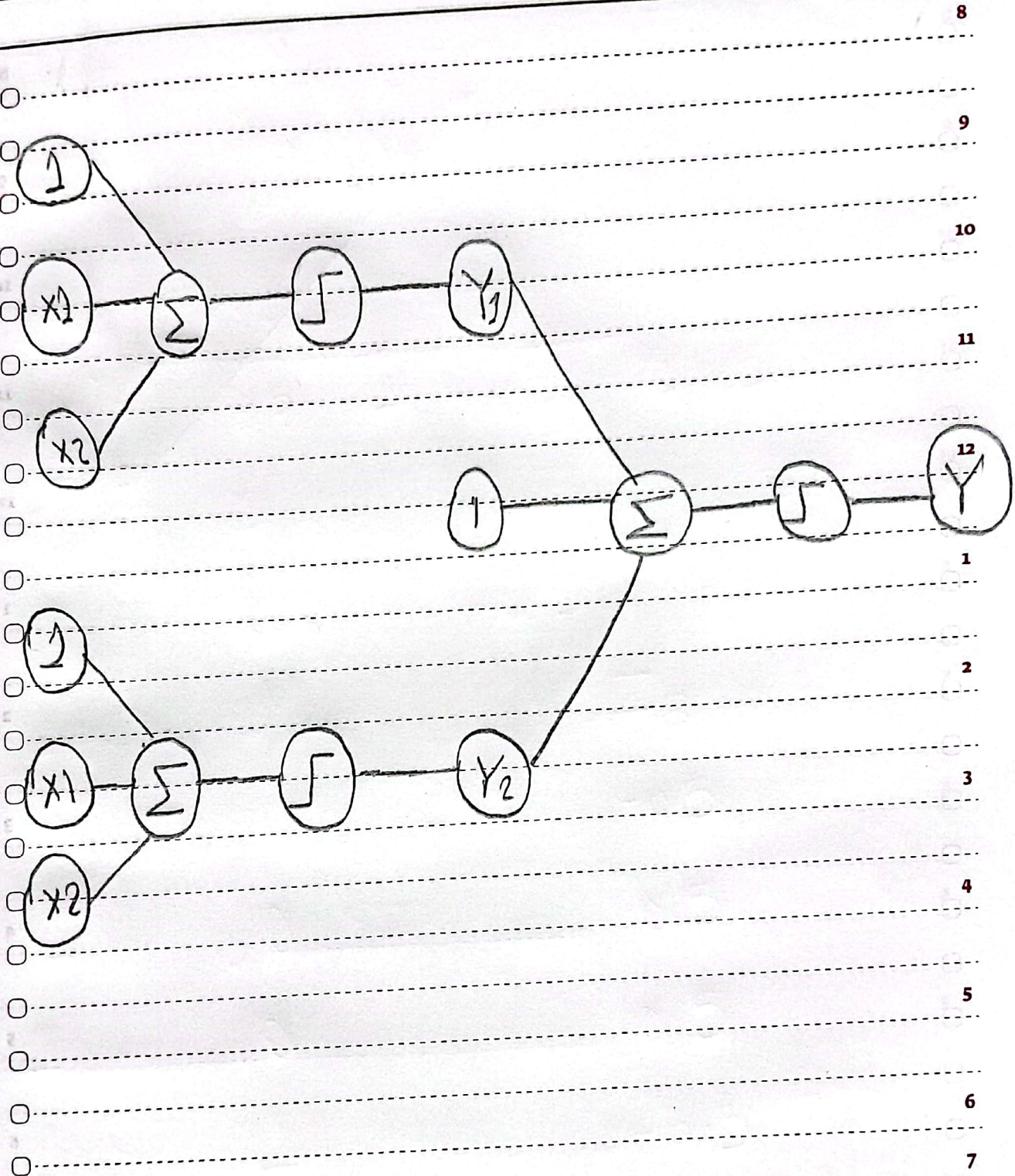
7

2025

20
December
Saturday

ديسمبر
السبت

٢٩ جماد الآخر ١٤٤٧ هـ



Dec	1	2	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
	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	1	2	3	4	5	6	7	8	9	10	11

Jumada Al-Akhar - Rajab

2025

27
December
Saturday

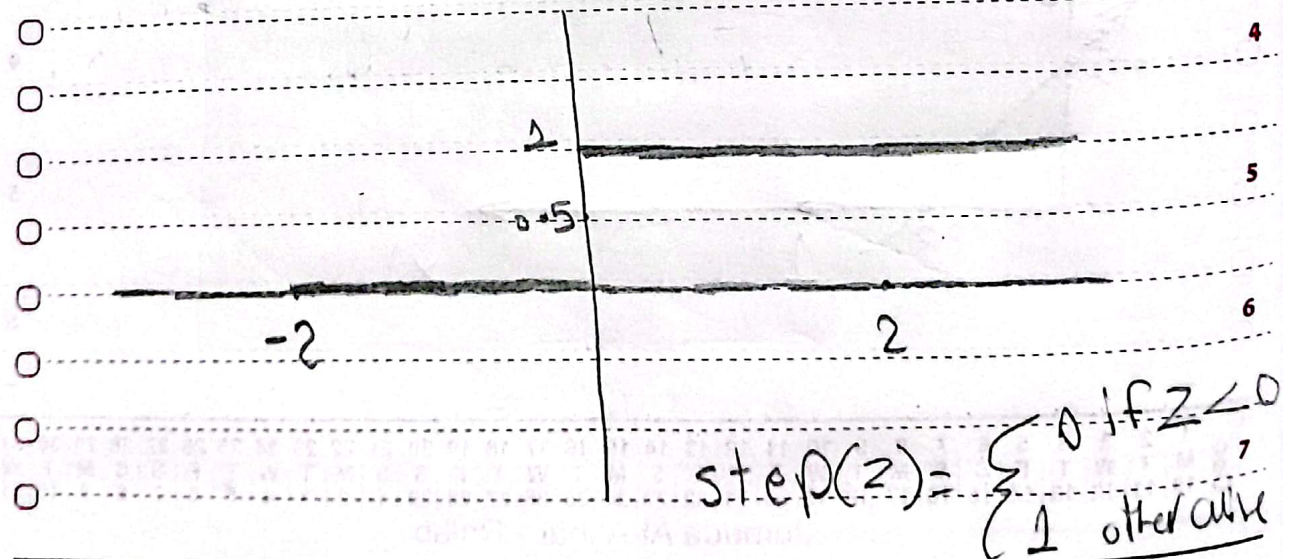
ديسمبر
السبت

٢٧ رجب ١٤٤٧ هـ

$$Z = X_1 + X_2 - 0.5$$

X_1	X_2	Z
0	0	-0.5
0	1	0.5
1	0	0.5
1	1	1.5

Step activation



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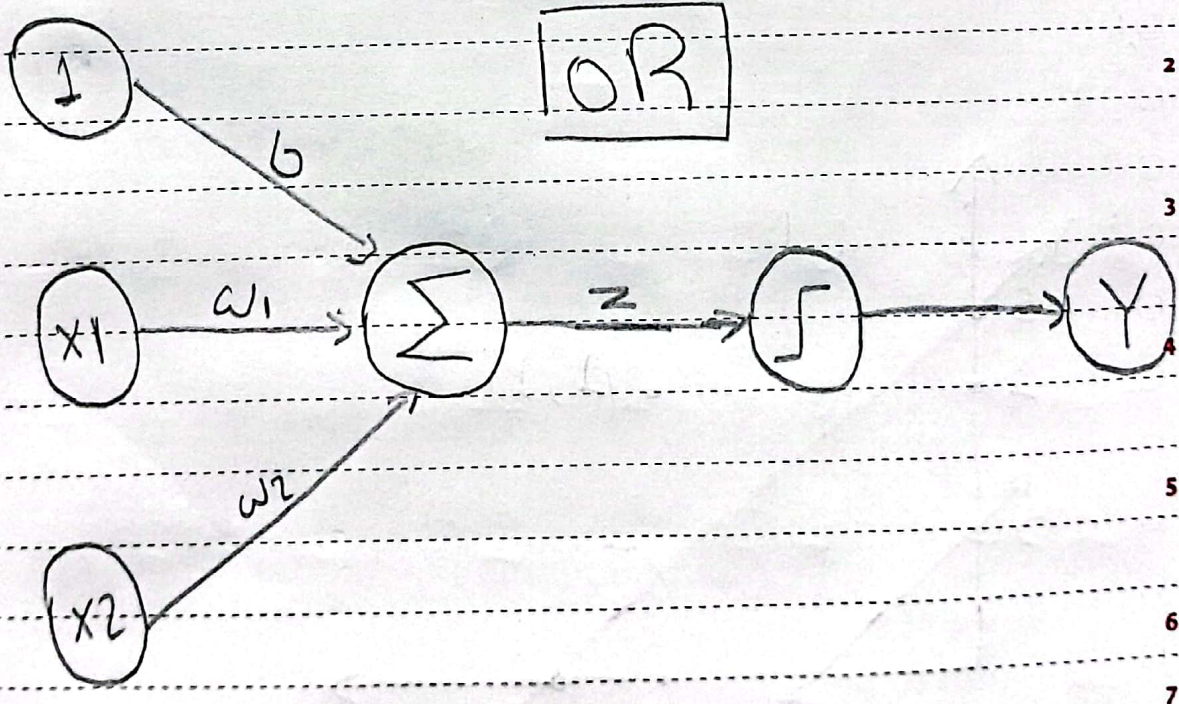
٢٦

2025

December
Fridayديسمبر
الجمعة

٦ رجب ١٤٤٧ هـ

x_1	x_2	z	y	target	
0	0	-0.5	0	0	9
0	1	0.5	1	1	10
1	0	0.5	1	1	11
1	1	1.5	1	1	12



Dec	1	2	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
	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	1	2	3	4	5	6	7	8	9	10	11
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