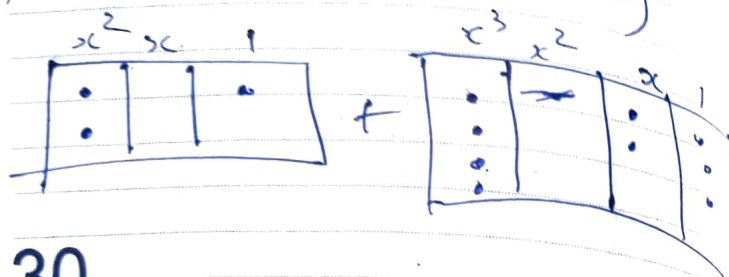


29 NOVEMBER

Wednesday

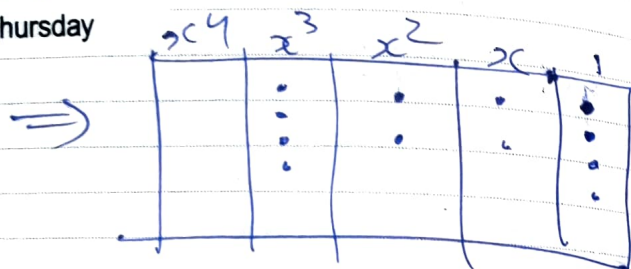
POLYNOMIAL ADDITION By DOT METHOD

1) $(2x^2 + 1) + (4x^3 + 2x + 3)$



30

Thursday



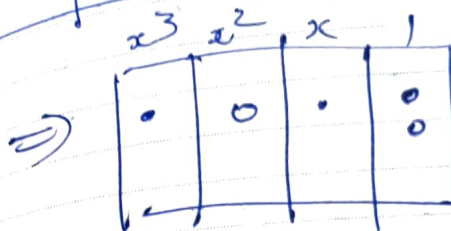
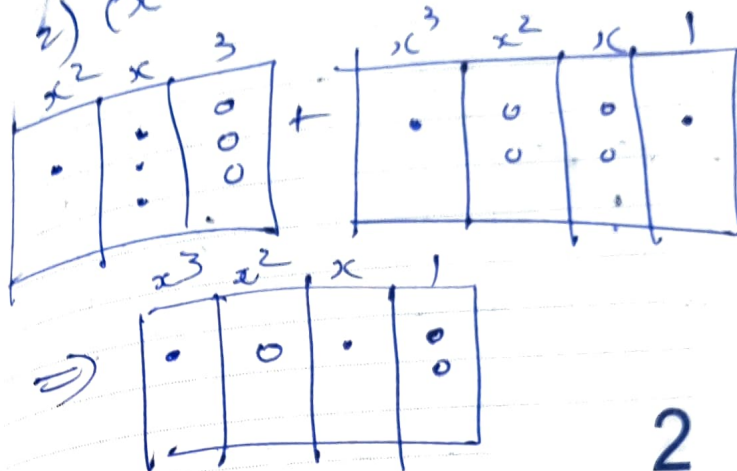
$\Rightarrow 4x^3 + 2x^2 + 2x + 4$

DECEMBER

1

Friday

2) $(x^2 + 3x - 3) + (x^3 - 2x^2 - 2x + 1)$



2

Saturday

Note: 0 and 0 will cancel out each other.

$\Rightarrow x^3 - x^2 + x - 2$

OCT
2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
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	-	-	-	-	-	-	-	-	-	-	-

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
-	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	-	-	-	-	-	-	-	-	-	-

JAN
2018

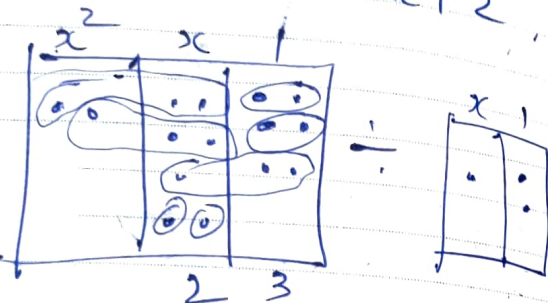
13 NOVEMBER

Monday

3) No. of dots in column 2 will be 5. It won't change.

POLYNOMIAL CALCULATION BY DOTS - I

1) $2x^2 + 7x + 6 \div x + 2$



14

Tuesday

So, answer is $2x + 3$

- The pattern is 1 dot & 2 dots which can be vertical or horizontal.

- Since there are three terms 3 columns will come in $2x^2 + 7x + 3$

OCT 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
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											

NOVEMBER

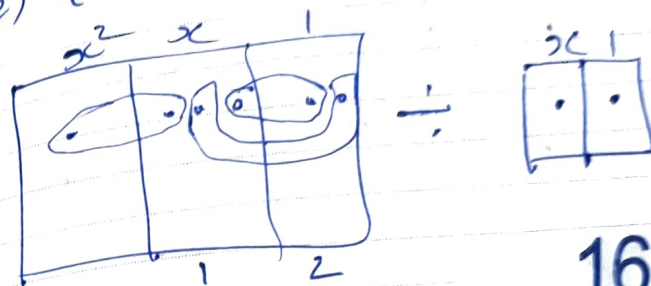
15

Wednesday

2017

and give there are 2 terms in $x + 2$, 2 columns will come.

2) $(x^2 + 3x + 2) \div (x + 1)$



Answer is $x + 2$

16

Thursday

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
					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						

DEC 2017

17

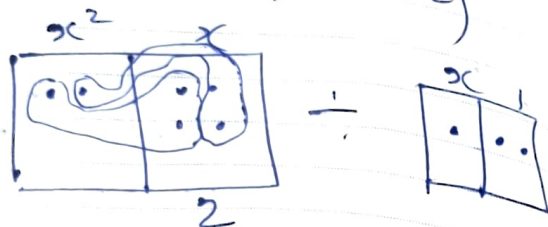
NOVEMBER

Friday

POLYNOMIAL DIVISION BY DOTS - II

2017

$$1) (2x^2 + 4x) \div (x+2)$$

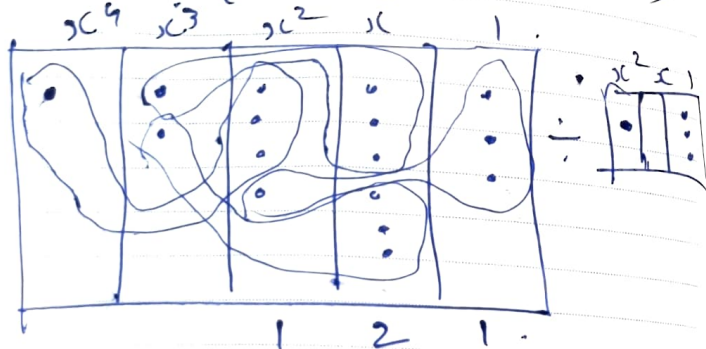


18

Saturday

Answer: 2x

$$2) (x^4 + 2x^3 + x^2 + 6x + 3) \div (x^2 + 3)$$



NOVEMBER

19

Sunday

So, Answer is
 $x^2 + 2x + 1$

POLYNOMIAL DIVISION BY DOTS - III

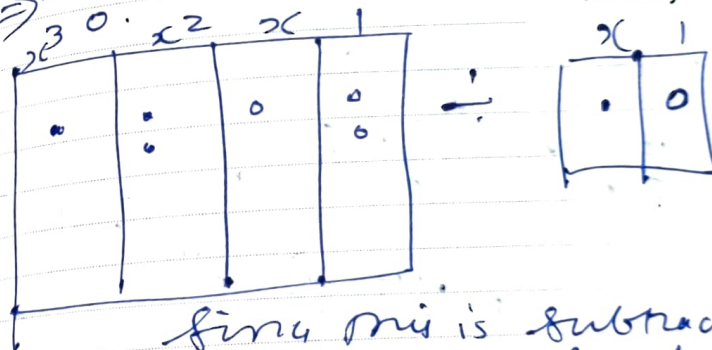
$$1) (x^3 + 2x^2 - x - 2) \div (x-1)$$

\Rightarrow +ve terms are shown as

\Rightarrow -ve terms are shown as

20

Monday



Since this is subtraction,
sign in polynomial expression
we add antidots,

OCT
2017

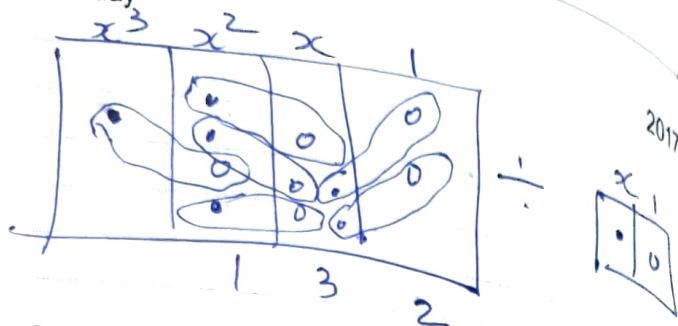
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31											

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
							1	2	3	4	5	6	7	8	9	10	11	12	13	14
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						

DEC
2017

21 NOVEMBER

Tuesday

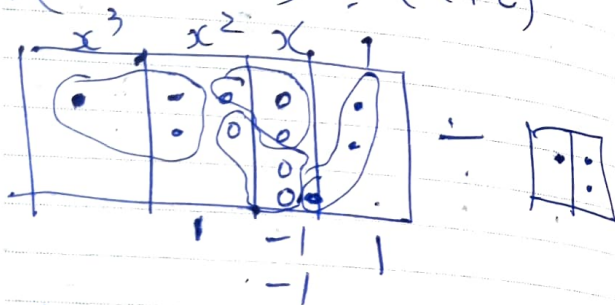


So, answer is $x^2 + 3x + 2$

22

Wednesday

2) $(x^3 - 3x + 2) \div (x + 2)$



Answer is: $x^2 - 2x + 1$

OCT
2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
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											

NOVEMBER 23
Thursday

2017

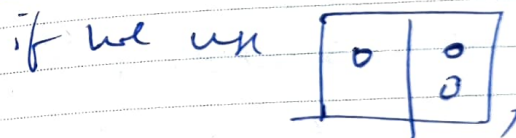
1) In column 2, we add 2 dots and so, to cancel out each other, we add 2 anti dots as well.

2) In column 3, we add 1 dot and 1 anti dot as well to cancel out each other.

3) If the pattern is say, for example



, then



Then it would be counted as -1.

24

Friday

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
					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						

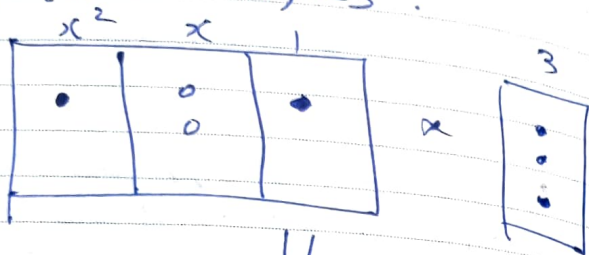
DEC
2017

25 NOVEMBER

Saturday

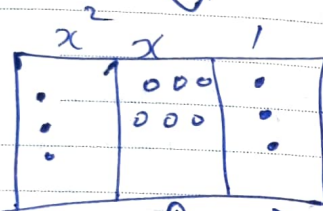
POLYNOMIAL USING DOTS MULTIPLICATION 2017

1) $(x^2 - 2x + 1) \times 3$



26

Sunday



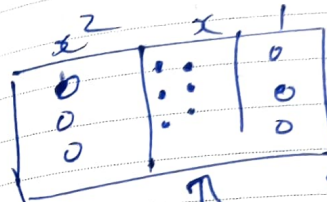
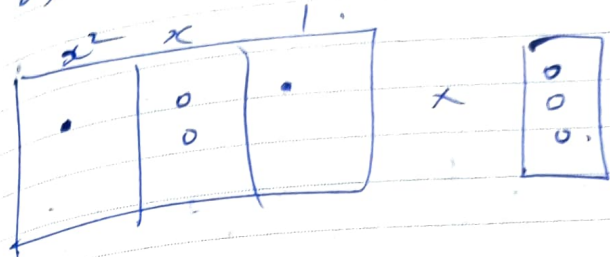
1 Copy of 3 dots 2 Copy of 3 Antidots 1 Copy of 3 dots

$\Rightarrow 3x^2 - 6x + 3$

NOVEMBER 27

Monday

2) $(x^2 - 2x + 1) \times (-3)$



1 Copy of 3 Antidots 2 Copy of 3 Dots 1 Copy of 3 Antidots

$\Rightarrow -3x^2 + 6x - 3$

28

Tuesday

OCT 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
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	-	-	-	-	-	-	-	-	-	-	-

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
-	-	-	-	-	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	-	-	-	-	-	-

DEC 2017

3

DECEMBER

Sunday

POLYNOMIAL SUBTRACTION By POT METHOD

2017

$$1) (3x^2 + 2x) - (4x^2 + 5x)$$

4

Monday

$$\Rightarrow -x^2 - 3x$$

Note: 0 and • will cancel out each other.

NOV
2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
-	-	-	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	-	-	-	-	-	-	-	-	-

DECEMBER

5

Tuesday

2017

$$2) (x^3 + 3x^2 + 2x - 1) - (2x^2 + x - 2)$$

$$\Rightarrow x^3 + x^2 + x + 1$$

Note: 0 and • will cancel out each other.

6

Wednesday

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
-	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	-	-	-	-	-	-	-	-	-	-

JAN
2018