Today we went over the syllabus and classroom rules. Remember to get a composition notebook to begin your interactive notebook! We also began taking notes on polynomials. All the sheets for the front of the interactive notebook and the notes we took in class are below. Your homework for tonight is to not lose any of the papers you were given today. Happy first day!

College Readiness Mathematics/Algebra II

Students who successfully complete course work will receive one unit of credit for College Readiness Math in the fall semester and one unit of Algebra 2 for the spring semester.

Grading Policy

Unit Tests	40%
Quizzes and Projects	25%
Daily	20%
Final Exam	15%

Steps for Success

- ✓ Be on time and prepared for class each day.
- ✓ Participate in class activities and discussions.
- ✓ Complete all homework assignments.
- ✓ Be organized.
- ✓ Ask questions in class & seek extra help after class.

I understand that ...

_____Homework will be checked for completion. You must show your work for all problems to receive credit.
_____Late work is only accepted with an excused absence and it must be turned in by the day of the chapter test.
_____ Make up tests and quizzes will be recorded as a 0 until completed.
_____ I must be an active participant in and out of class. (Ask relevant questions, complete assignments, have the will to learn)
_____Cell phones will be collected daily at the start of class. Failure to turn in your phone will result in a warning the first occurrence and an office referral for the second occurrence.
_____by successfully completing the course work, I will earn one unit credit for College Readiness in the fall and one unit of credit for Algebra II in the spring.
_____ Cheating is defined in the syllabus and is not tolerated.
_____ My interactive notebook will be graded for completion and organization and will be a part of my daily assignments grade.

Help Sessions:

Mr. Harmon	Room 305	Mon. – Fri.	7:45 – 8:15 AM
Mrs. Bonanni	Room 406	Wed. and Fri.	7:45 – 8:15 AM
Mrs. Balentine	Room 314	Tue. and Thur.	3:45 – 4:15 PM

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

1 × 1 = 1	2 × 1 = 2	3 × 1 = 3	4 × 1 = 4	5 × 1 = 5
1 × 2 = 2	2 × 2 = 4	3 × 2 = 6	4 × 2 = 8	5 × 2 = 10
1 × 3 = 3	2 × 3 = 6	3 × 3 = 9	4 × 3 = 12	5 × 3 = 15
1 × 4 = 4	2 × 4 = 8	3 × 4 = 12	4 × 4 = 16	5 × 4 = 20
1 × 5 = 5	2 × 5 = 10	3 × 5 = 15	4 × 5 = 20	5 × 5 = 25
1 × 6 = 6	2 × 6 = 12	3 × 6 = 18	4 × 6 = 24	5 × 6 = 30
1 × 7 = 7	2 × 7 = 14	3 × 7 = 21	4 × 7 = 28	5 × 7 = 35
1 × 8 = 8	2 × 8 = 16	3 × 8 = 24	4 × 8 = 32	5 × 8 = 40
1 × 9 = 9	2 × 9 = 18	3 × 9 = 27	4 × 9 = 36	5 × 9 = 45
1 × 10 = 10	2 × 10 = 20	3 × 10 = 30	4 × 10 = 40	5 × 10 = 50

6 × 1 = 6	7 × 1 = 7	8 × 1 = 8	9 × 1 = 9	10 × 1 = 10
6 × 2 = 12	7 × 2 = 14	8 × 2 = 16	9 × 2 = 18	10 × 2 = 20
6 × 3 = 18	7 × 3 = 21	8 × 3 = 24	9 × 3 = 27	10 × 3 = 30
6 × 4 = 24	7 × 4 = 28	8 × 4 = 32	9 × 4 = 36	10 × 4 = 40
6 × 5 = 30	7 × 5 = 35	8 × 5 = 40	9 × 5 = 45	10 × 5 = 50
6 × 6 = 36	7 × 6 = 42	8 × 6 = 48	9 × 6 = 54	10 × 6 = 60
6 × 7 = 42	7 × 7 = 49	8 × 7 = 56	9 × 7 = 63	10 × 7 = 70
6 × 8 = 48	7 × 8 = 56	8 × 8 = 64	9 × 8 = 72	10 × 8 = 80
6 × 9 = 54	7 × 9 = 63	8 × 9 = 72	9 × 9 = 81	10 × 9 = 90
6 × 10 = 60	7 × 10 = 70	8 × 10 = 80	9 × 10 = 90	10 × 10 = 100

FACTORS CHART (1 – 100) Prime Numbers are Highlighted

1	1,1	51	1,51 3,17
2	**1,2**	52	1,52 2,26 4,13
3	**1,3**	**53**	**1,53**
4	1,4 2,2	54	1,54 2,27 3,18 6,9
5	**1,5**	55	1,55 5,11
6	1,6 2,3	56	1,56 2,28 4,14 7,8
7	**1,7**	57	1,57 3,19
8	1,8 2,4	58	1,58 2,29
9	1,9 3,3	**59**	**1,59**
10	1,10 2,5	60	1,60 2,30 3,20 4,15 5,12 6,10
11	**1,11**	**61**	**1,61**
12	1,12 2,6 3,4	62	1,62 2,31
13	**1,13**	63	1,63 3,21 7,9
14	1,14 2,7	64	1,64 2,32 4,16 8,8
15	1,15 3,5	65	1,65 5,13
16	1,16 2,8 4,4	66	1,66 2,33 3,22 6,11
17	**1,17**	**67**	**1,67**
18	1,18 2,9 3,6	68	1,68 2,34 4,17
19	**1,19**	69	1,69 3,23
20	1,20 2,10 4,5	70	1,70 2,35 5,14 7,10
21	1,21 3,7	**71**	**1,71**
22	1,22 2,11	72	1,72 2,36 3,24 4,18 6,12 8,9
23	**1,23**	**73**	**1,73**
24	1,24 2,12 3,8 4,6	74	1,74 2,37
25	1,25 5,5	75	1,75 3,25 5,15
26	1,26 2,13	76	1,76 2,38 4,19
27	1,27 3,9	77	1,77 7,11
28	1,28 2,14 4,7	78	1,78 2,39 3,26
29	**1,29**	**79**	**1,79**
30	1,30 2,15 3,10 5,6	80	1,80 2,40 4,20 5,16 8,10
31	**1,31**	81	1,81 3,27 9,9
32	1,32 2,16 4,8	82	1,82 2,41
33	1,33 3,11	**83**	**1,83**
34	1,34 2,17	84	1,84 2,42 3,28 4,21 6,14 7,12
35	1,35 5,7	85	1,85 5,17
36	1,36 2,18 3,12 4,9 6,6	86	1,86 2,43
37	**1,37**	87	1,87 3,29
38	1,38 2,19	88	1,88 2,44 4,22 8,11
39	1,39 3,13	**89**	**1,89**
40	1,40 2,20 4,10 5,8	90	1,90 2,45 3,30 5,18 6,15 9,10
41	**1,41**	91	1,91 7,13
42	1,42 2,21 3,14 6,7	92	1,92 2,46 4,23
43	**1,43**	93	1,93 3,31
44	1,44 2,22 4,11	94	1,94 2,47
45	1,45 3,15 5,9	95	1,95 5,19
46	1,46 2,23	96	1,96 2,48 3,32 4,24 6,16 8,12
47	**1,47**	**97**	**1,97**
48	1,48 2,24 3,16 4,12 6,8	98	1,98 2,49 7,14
49	1,49 7,7	99	1,99 3,33 9,11
50	1,50 2,25 5,10	100	1,100 2,50 4,25 5,20 10,10

My Definition

An expression that can have constants, variables, and exponents It must have whole number exponents and real coefficients

Characteristics

Polynomials are named (classified) by their degree and the number of the terms

Vocabulary word: Polynomial

Example

$5x^2y - 3x + 4y^3 - 2$

or

$7xy^3$

or

$3x + \pi$

Non-Example

$\frac{2}{x}$ ← Variable cannot be in denominator

$5x^{\frac{1}{2}}$ or $3x^{-2}$

Exponent must be a whole number.

STANDARD FORM OF A POLYNOMIAL

- Arrange the terms so the term with the highest exponent goes first.
- Follow with the other terms with exponents in decreasing order.
- The last term should be the constant.

Polynomials are named according to their degree and number of terms.

Degree

Degree	Name	Example
0	Constant	5
1	Linear	$7x+5$
2	Quadratic	$3x^2+5$
3	Cubic	$2x^3+3$
4	Quartic	$7x^4+2x^2+1$
5	Quintic	$2x^5$
6 or more	nth degree	$4x^6$

Terms

Terms	Name	Example
1	monomial	$7x$
2	binomial	$7x+5$
3	trinomial	$3x^2+7x+5$
4+	polynomial	$4x^3+x^2+7x+5$

Let's Practice! Name the following polynomials:

high exponent

$-7+3n^3$ Cubic binomial

5 constant monomial

$-x^2+3x^2-11$

Quartic. trinomial