Book on your desk.
Begin reading.

Read in your novels.

Announcements

I really want to give back your Exponents Test 2, but I still have two students who have not taken it yet…

I will give your Polynomials test back ASAP as well, a few students were absent yesterday.

HF Chapters 9-12 are due on Monday. Make sure you are hitting submit on Google Classroom!

Hidden Figures Due Dates

- 9-12 due March 4
- 13-16 due March 11
- 17-20 due March 18
- 21-23 due March 25 → Book completed!

When we have finished the novel, we will watch the movie!

Unit Map - Factoring

Friday - Factoring by Grouping
Monday - Factoring Trinomials x^2+bx+c
Tuesday - Factoring Trinomials ax^2+bx+c
Wednesday - Factoring Special Cases
Thursday - *Hidden Figures Day - Ms. Barger at Math 1 PD*
Friday - Factoring Review
Monday - Factoring Test

Warm-Up

1. What is the GCF of 35 and 20
2. What is the GCF of 7, 15, and 21
3. Factor: $3x^2-6x+9$
4. Name two numbers that multiply to be 24 and add to be -11
5. Name two numbers that multiply to be -44 and add to be 7

Factoring by Grouping

3/1/2019

Remember...

To find the GCF or ( ), we have to:

1. See what they ALL have in common (including numbers and variables)
2. Remove what is in common
3. Show what is left
4. Check by redistributing what you removed!

Directions: Find the GCF in each of the following.

1. $2x^2 - 10x$
2. $8x^2y^5 + 4x^5y^3 + 12x^3y^3$
3. $24x^5y^2 + 16x^7y^3 + 40x^3y^2$

Quick Review of Factoring

4. $4x^8y^4 + 2x^3y^3 + 12x^5y^6$

5. $27x^6y^7 + 81x^2y^3 + 18x^3y^4$

6. $3x^3 + 12x^2 + 9x$

7. $8x - 56x^3$

8. $4a^4b - 16a^2b^2 + 4ab^4$

9. $6a^3b^2 - 12a^2b^3 + 18ab$


$x^3 - 2x^2 + 4$
$x^2($

Math 1

Factor By Grouping

Factor by Grouping: A way of factoring a polynomial with _____ terms!

Essential Understanding: polynomials of a degree greater than 2 can be factored

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IF THERE IS A GCF, YOUR FIRST STEP IS ALWAYS TO PULL IT OUT

Math 1

Factor By Grouping

Factor by Grouping: A way of factoring a polynomial with _____ terms!

Essential Understanding: polynomials of a degree greater than 2 can be factored

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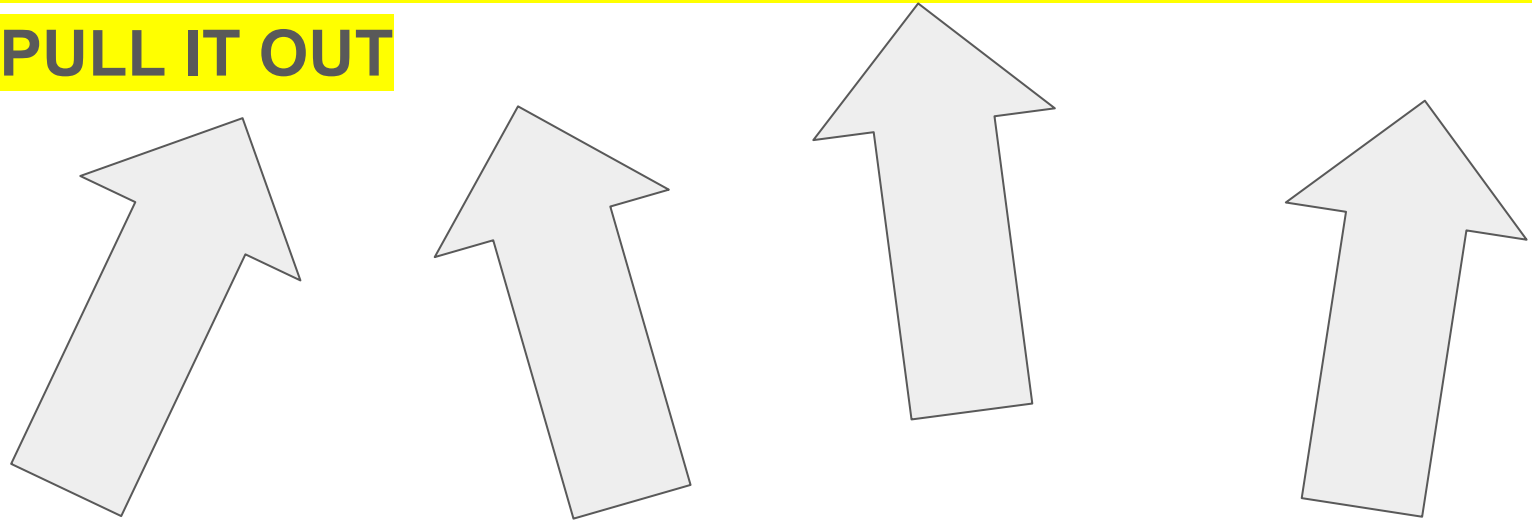

Example 1: Factor $3n^3 - 12n^2 + 2n - 8$

GCF Method

Step 1: Put parenthesis around first two terms and second two terms.

Step 2: Factor out a GCF if one exists from each group

Step 3: Write your new factors as binomials

Step 4: Check your factors by multiplying them together and getting the original problem.

Example 2: Factor $8t^3 + 14t^2 + 20t + 35$

Example 3: Factor $12x^3 + 3x^2 + 20x + 5$

Got it? Factor each of the following by grouping.

1. $21x^3 - 28x^2 - 6x + 8$
2. $8t^3 + 36t^2 + 2t + 9$
3. $6x^3 + 9x^2 + 2x + 3$
4. $21x^3 + 6x^2 - 28x - 8$
5. $32m^3 + 72m^2 - 80m - 180$
6. $30b^4 - 45b^3 - 10b^2 + 15b$
7. $60a^5 - 72a^4 - 210a^3 + 252a^2$
8. $12e^4 + 18e^3 + 36e^2 + 54e$

IXL Practice - 10 Questions

https://www.ixl.com/math/algebra-1/factor-by-grouping

www.yellkey.com/remember

Homework

Textbook page 519 #16-21, 23, 25, 43

HF through Chapter 12 due Monday