

Algebra 1- Week 16 Homework

Monday-

1) Examine the problems below. Circle the problems that have been multiplied correctly. Draw an "X" through the problems that are incorrect. Then, write the correct answer beneath of the problem.

$$3x(x^2 + 4x + 8)$$

$$3x^3 + 7x^2 + 24$$

$$(4x + 1)(x + 4)$$

$$4x^2 + 4$$

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

$$-6x^2 - 2x + 20$$

$$(7x - 7)(4x^3 + 5x^2 + 1)$$

$$28x^4 + 7x^3 - 35x^2 + 7x - 7$$

2) Brandon multiplied two monomials together. The degree of the first monomial was 5 and the degree of the second monomial was 2. What was the degree of his final answer?

Tuesday-

Find the greatest common monomial factor:

1. $3x + 18$

2. $4w^2 + 8xy$

3. $12x^3 + 4x^2 + 10x$

4. $40x^4y^3 + 24x^4y^2 + 16x^2y$

Wednesday- Finish factoring trinomials investigation if didn't finish in class using <https://technology.cpm.org/general/tiles/> also, please catch up on previous missing work!

Thursday-

Write the trinomial below in factored form (as the product of two binomials)

1. $x^2 + 15x + 36$

3. $x^2 - 9x - 22$

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

4. $5x^2 + 15x + 10$

Friday-

1. Write the trinomial below in factored form (as the product of two binomials):

$$7a^2 + 15a + 2$$

2. Factor the trinomial below using the method we learned in our last class:

$$n^2 + 4n - 12$$

3. Factor the trinomial below using the method we learned today using the AC method:

$$n^2 + 4n - 12$$