Section 9.2 - Factor by GCF.notebook

<u>Warm-up 2-20</u>

Factor each expression.

1. $7x(y + 9) - 12x^2(y + 9)$

2. $8x^4 + 4x^3 - 2x^2$

3.
$$12a^3 - 9a^2 + 20a - 15$$



Section 9.3: Factoring Trinomials

















<u>Practice</u>



Section 9.4: Factoring Trinomials with a leading

<u>coefficient</u> Remember:

 $(3x + 2)(2x + 5) = 6x^2 + 19x + 10$



Section 9.2 - Factor by GCF.notebook

"Grouping" Method

 $5x^{2} + 19x + 12$ $5x^{2} + 15x + 4x + 12$



"Grouping" Method $5x^{2} + 19x + 12$ (5x+4)(x+3) 5(17) $(5x^{2} + 15x) + (4x + 12)$ 15 \\4 SBX3 19 5x(x+3) + 4(x+3)(x+3) 5x+4

<u>Examples</u> 3n² - 8n + 4

 $2m^2 + 5m + 2$

 $7a^2 + 53a + 28$

 $9k^{2} + 66k + 21$



Section 9.3: Factoring Trinomials

Factoring a trinomial in the form $ax^2 + bx + c$. (no leading coefficient.)









Practice.



<u>Practice</u>



Section 9.2 - Factor by GCF.notebook

Homework

Worksheet #1-6