Check these answers to HW Page 77:

4. $\frac{24x^2}{x} - \frac{35x}{x}$

$x(24x - 35)$

5. $\frac{81x^2}{27x} - \frac{27x}{27x}$

$27x(3x - 1)$

6. $\frac{15y^2}{3y} + \frac{9y}{3y}$

$3y(5y + 3)$

10. $\frac{60x^2y}{12x^2} + \frac{24x^2}{12x^2}$

$12x^2(5y + 2)$

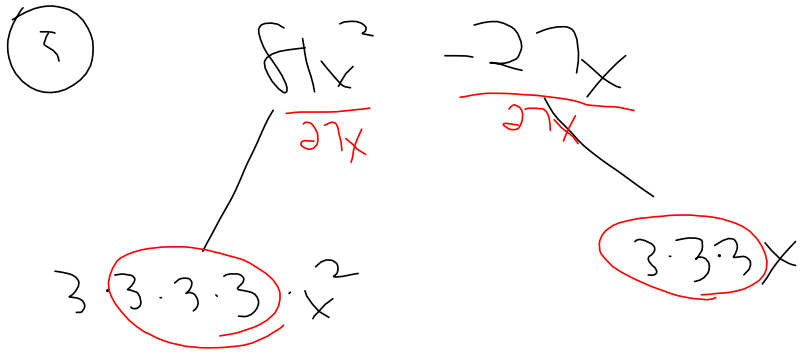
$2(30x^2y + 12x^2)$

$2 \cdot 6(5x^2y + 2x^2)$

$12x^2(5y + 2)$

11. $\frac{2a^2b^2}{2a^2} + \frac{8a^2}{2a^2}$

$2a^2(b^2 + 4)$



$GCF = 3 \cdot 3 \cdot 3x$

$= 27x$

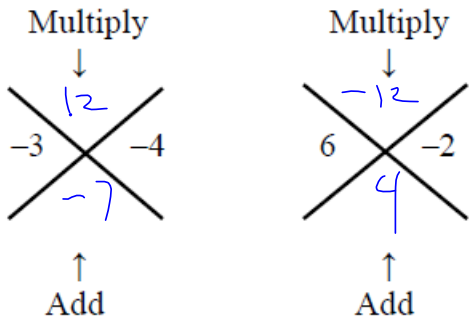
$= 27x(3x - 1)$

Page 13

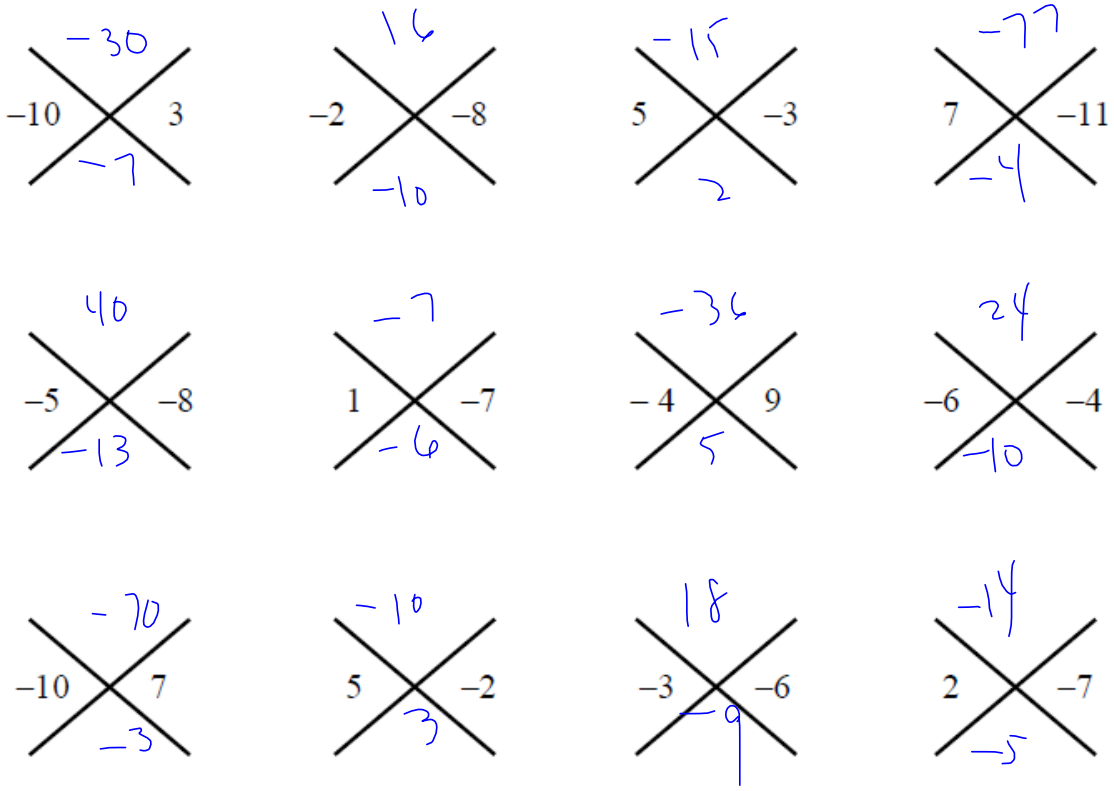
"Diamond" or "Magic x" Problems

"Magic x" problems are simply tools to help you find the PRODUCT and SUM of two numbers. They can also be helpful with thinking BACKWARDS when you learn to factor later this year.

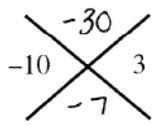
Example 1:

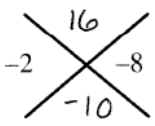


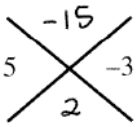
√ Understanding Check

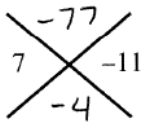


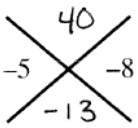
√ Understanding Check

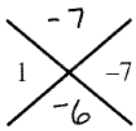


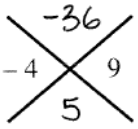


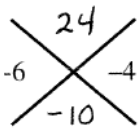


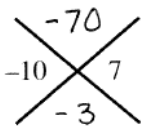


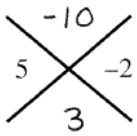


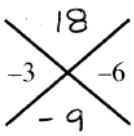


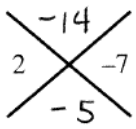










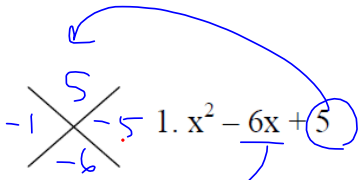


HW Page 80

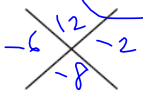
Factoring Simple Trinomials with x^2

Name _____

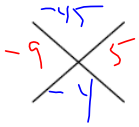
Date _____ Per _____



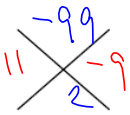
1. $x^2 - 6x + 5$ $= (x-1)(x-5)$



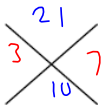
2. $x^2 - 8x + 12$



3. $x^2 - 4x - 45$



4. $x^2 + 2x - 99$



5. $x^2 + 10x + 21$

11. $x^2 - 20x + 75$

12. $x^2 + 5x - 24$

13. $x^2 - 6x + 8$

14. $x^2 + 14x + 40$

15. $x^2 - 4x - 77$

HW Page (back of handout)