Pg. 48-49 Factoring Trinomials Sec. 4.4

Find the Greatest Common Factor (GCF) pg. 48

$$-49n^4 + 7n^2 - 28n$$

$-7n(7n^3 - 1n + 4)$

$$32x^3 + 40x + 48$$

$8(4x^3 + 5x + 6)$

Learning Targets

I CAN factor quadratic expressions completely (GCF, Difference of squares, Trinomials)

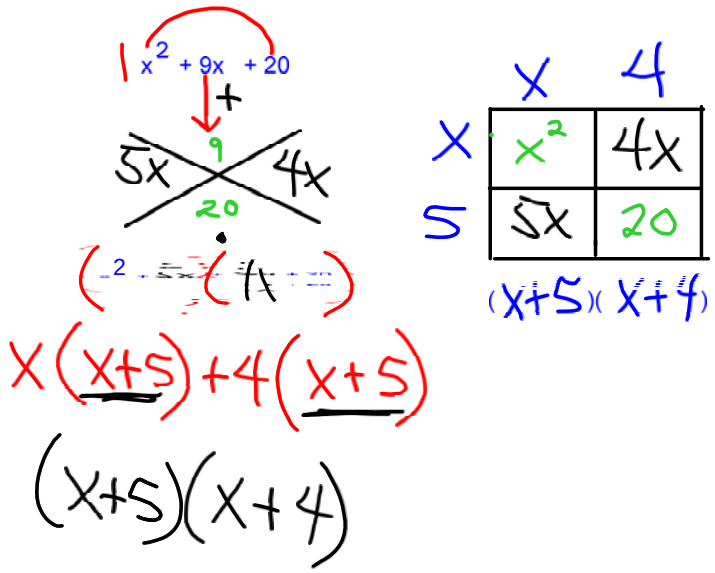
Pg. 48-49 Factoring Trinomials Sec. 4.4

p. 48

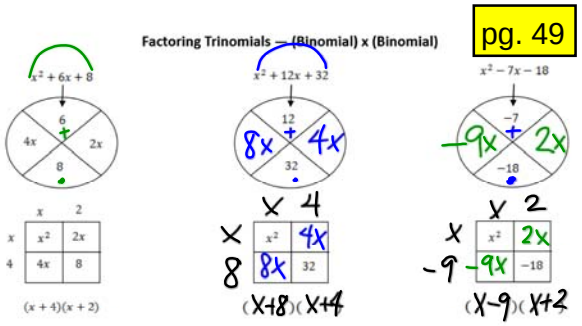
We Know that if we MULTIPLY 2 BINOMIALS by distributing, we usually have a TRINOMIAL PRODUCT.

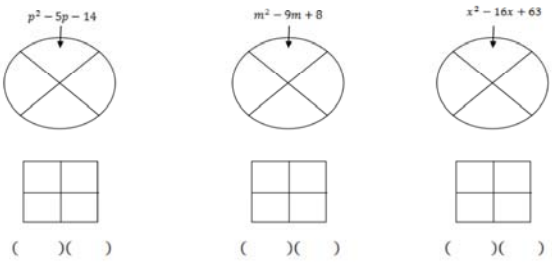
EX. $(x + 5)(x + 4) = x^2 + 9x + 20$

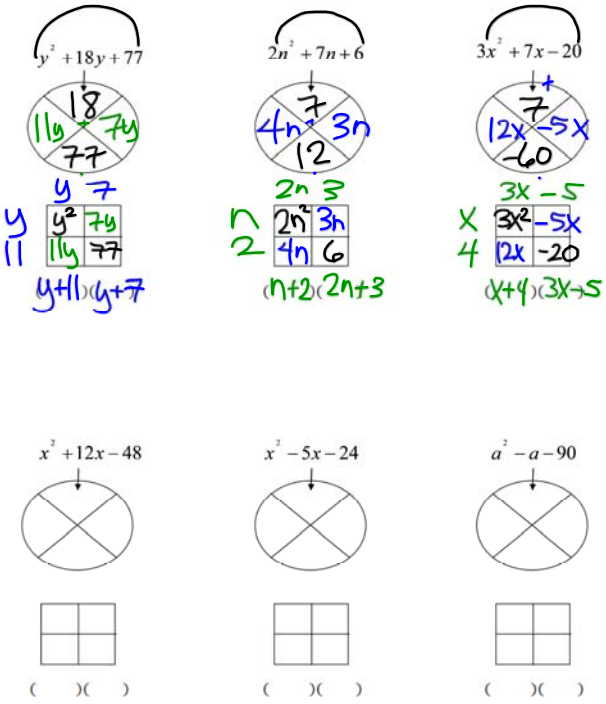
Now if we wanted to FACTOR a TRINOMIAL we need to use REVERSE DISTRIBUTION or the BOX method in reverse to find the 2 BINOMIALS.



pg. 49







Homework: Factoring Trinomials worksheet (1-10)

#10: (hint GCF first)

$$28n^4+16n^3-80n^2$$

$$4n^2(7n^2+4n-20)$$

4

14n −10n

−140

7n −10

n $7n^2$ −10n

2 14n −20

$$4n^2(n+2)(7n-10)$$