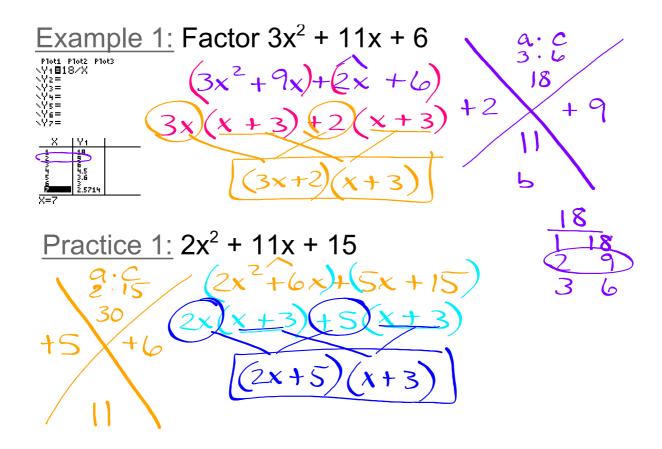
6.3 Factoring Trinomials of the Form ax² + bx + c & Perfect Square Trinomials DAY ONE

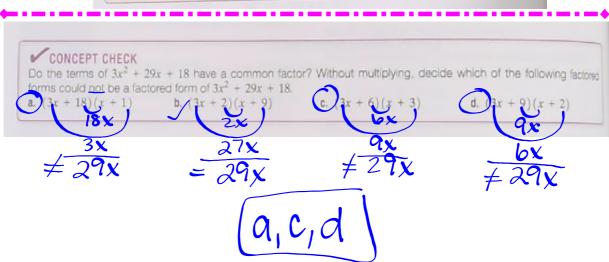
OBJECTIVE 1: Factoring Trinomials of the Form
$$ax^2 + bx + c$$
 $\alpha \neq 1$

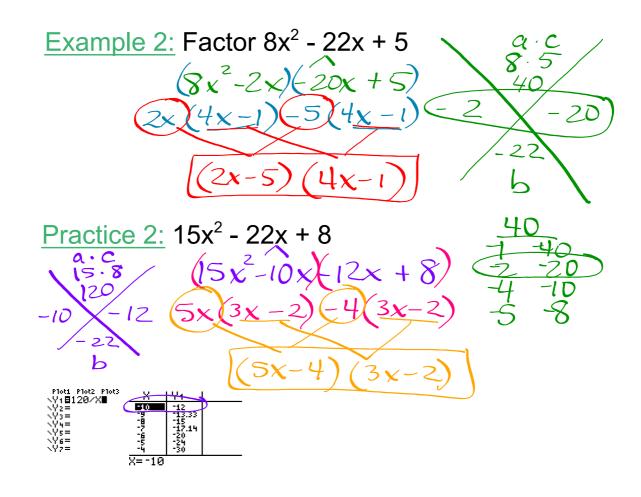
Notice now the leading coefficient or your a something other than one. We will use an X method and factor by grouping each time for consistency! It ALWAYS works!

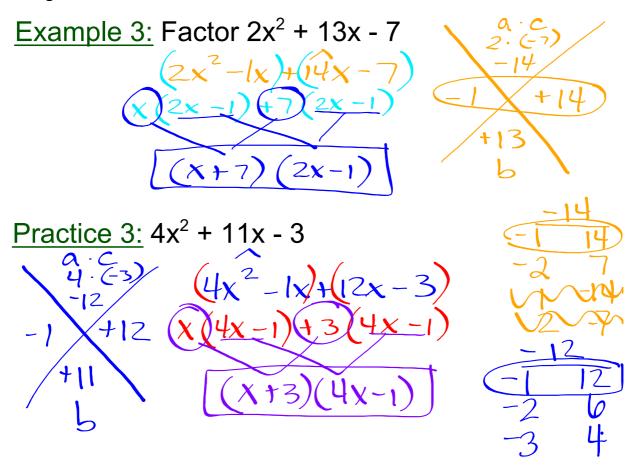


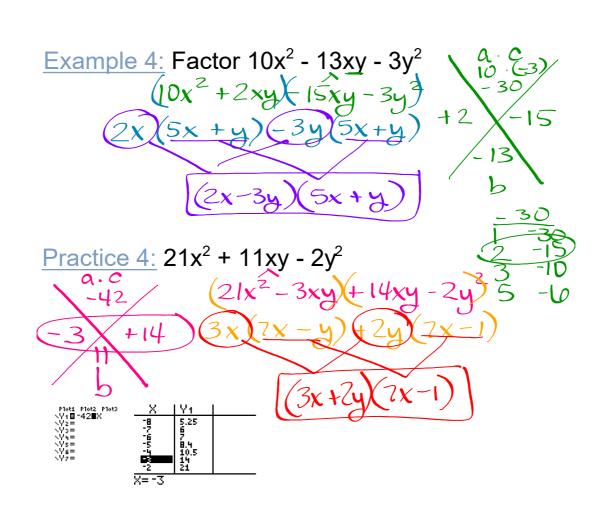
Helpful Hint

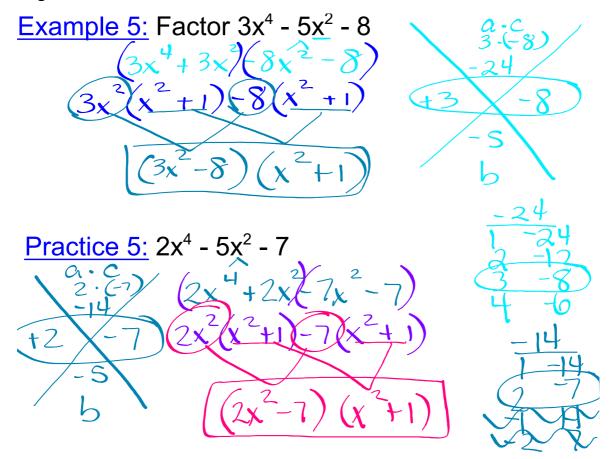
If the terms of a trinomial have no common factor (other than 1), then the terms of neither of its binomial factors will contain a common factor (other than 1).

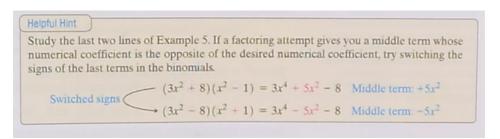






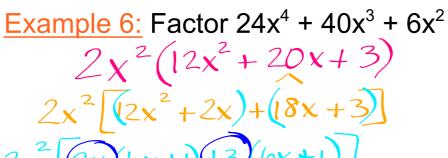


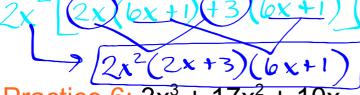




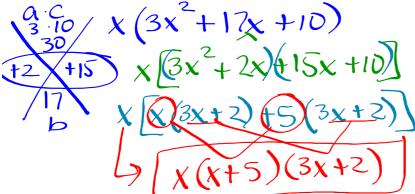
OBJECTIVE 2: Factoring Out The Greatest Common Factor (GCF)

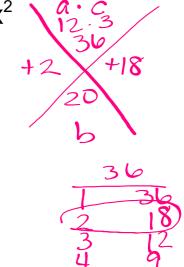
Don't forget that the FIRST STEP in factoring ALWAYS is to look for a greatest common factor to factor out of EVERYTHING! Do not forget the GCF in the final factored form.





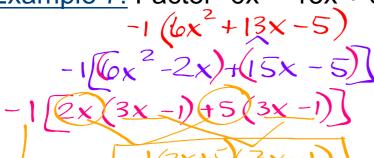
Practice 6: $3x^3 + 17x^2 + 10x$

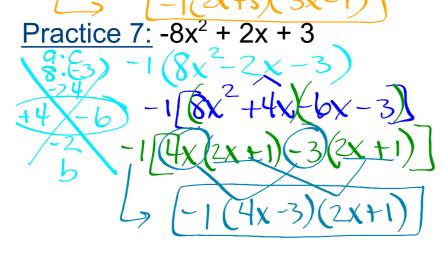


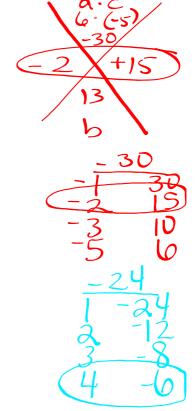


When "a" is negative, you may want to factor out a -1.

Example 7: Factor $-6x^2 - 13x + 5$







6.3 DAY ONE HW Assignment:

pg. 400: 1 - 37 (o)