III. Factoring "ax^2 + bx + c" (p.356):

1. $(mx + p)(nx + q) = ax^2 + bx + c$

   requires four numbers "m, n, p" & "q" such that...

   $pq = c$, $mn = a$ and $mq + pn = b$

   i.e., find factors of "a & c" where O+I equals "b"

2. Examples (p.361): Exercises #48,52,54,72

HW: p.361 / Exercises #45-59(odd),69,71,73

I. Difference/Sum of Two Squares

1. $\boldsymbol{x}^2 - \boldsymbol{y}^2 = (\boldsymbol{x} + \boldsymbol{y})(\boldsymbol{x} - \boldsymbol{y})$
2. $\boldsymbol{x}^2 + \boldsymbol{y}^2$ is "prime" (*i.e.*, can't be factored)
3. Examples (p.371): Exercises #4,26

HW: pp.371-372 / Exercises #1-9(odd),13,23,25,27
Read pp.364-370 (section 5.5)