- I. Factor: $ax^2 + bx + c$ (when a = 1, see section 6.2)
- II. Factor: $ax^2 + bx + c$ (when $a \ne 1$, see section 6.3) $ax^2 + bx + c = (px + m)(rx + n)$ find four numbers m, n, p & q such that: pr = a, np + mr = b & mn = cF O + I
 - e.g., factor " $6x^2 + 17x + 12$ " $a = ___, b = ___, c = ___$ factors of 6 are ___, ___, and ___
 factors of 12 are ___, ___, ___, and ___
 need to find four numbers/factors such that... $p \cdot r = 6, m \cdot n = 12 \text{ and } n \cdot p + m \cdot r = ___$ $try (2x + m)(3x + n) \text{ with } m = ___ \text{ and } n = ___$ FOIL $(2x + 3)(3x + 4) = 6x^2 + __ +$

- III. Examples (p.406): Problems #2,8,10,**16**,24,34, 36,40,42
- IV. Application (p.407): Problem #66

HW: pp.406-407 / Problems #1-13 (every other odd), 19,29,31,35,39-51 (odd),61,63,65 Read pp.409-413 (section 6.4)