2.2 Monomial Operations

- **Adding/ Subtracting**: Only like terms can be +/- (simplified to a single term)
  - Non like terms cannot be simplified to a single term
  - When you +/- terms, do it to the **coefficients** only.

- **Multiplying/ Dividing**: they don't have to be like terms.
- **Multiplying:** $(ax^m)(bx^n) = abx^{m+n}$
- **Dividing:** $\frac{ax^m}{bx^n} = \frac{a}{b}x^{m-n}$

Ex 1: Simplify the following monomials

$3x^2 + 4x^2$ _____ Adding

$5x^3y^2 - 3x^3y^2$ _____

$(2a)(5b)$ _____ Multiplying

$4(1.5a)$ _____

$\frac{12x^3y^4}{6x^2y^2}$ _____ Dividing

Practice:
Handout
Page 52 # 1, (2 - 7 aceg each), 8