

Ex. Find the degree: b) 4x5y421  $\frac{d^{2}y^{2}-7x^{2}y^{3}}{d^{2}-5} = \frac{1}{2}$ a) 4x5 d=5 d=5+4+1 d=10 Combining like Terms The variable (and exponents) must be identical 1. Identify 2. Group (X) The sign in front of a term belongs to that term! 3. Combine Ex 0  $2x^{2} + 3x - 7x^{2} - 5x$  $2x^{2} - 7x^{2} + 3x - 5x$ -5x² -2x = order matters Highest degree 1st 2 3 ef 2 - le 2 - 5 f 2 e - 4 e 2 -2ef2-5e2 \* Adding polynomials -> SAME as like terms (ignore brackets) \* Subtracting polynomials -> Add the opposite! (Rewrite)

 $\exists x. (-7x^2 + 9xy - 5y) - (2xy + 5x^2 - 3y)$  $-7x^{2} + 9xy - 5y + -2xy - 5x^{2} + 3y$  $-12x^{2} + 7xy - 2y$