## 5.3 Adding & Subtracting Polynomials

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I re-write the expression and group like terms beside one another 2 sort the terms and arrange descending powers  $\mathbb{N}$ Add/subtract to simplify the 3 expression FX# (a) 1a + 3a (+ 2b(-5b))10a - 3b «can NOT simplify any further (b) (3x - 4) - (2x + 3)# the subtraction  $(3\times$ - 2 x sign changes every term inside the 2nd brackets 3x - 2x - 4 - 3 $= || \times (3x^2 + 2x -$ (c)  $(4x^2 - 5x + 7) -$  $(-5x)(+)^{-1}$  $-3x^2$  $4x^2 - 3x^2 - 5x - 2x + 7 + 5$  $|x^2 - 7x +$  $\uparrow$ < lowest

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t highest ... > lowest power power # descending Order  $\chi^3 \rightarrow \chi^2 \rightarrow \chi \rightarrow \#$ Ex #2 BBB (a) $(3x^2 - 2x + 3) - (1x^2 - 1x + 2)$ (b)  $(4x^2 - 3x - 6) - (2x^2 - 1x - 3)$ 196 #5-16,20-24 pg

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