

Unit 5 Intro To Polynomials**5.3B Adding & Subtracting Polynomials**

Ex. Simplify the polynomials:

a) $1(2x + 2) + 1(5x - 3)$

① $2x + 2$ ② Distribute

$+ 5x - 3$ $= 2x + 2 + 5x - 3$

$7x - 1$ $= 7x - 1$

+ in front, just
drop brackets

b) $1(3p - 1) - 1(4p + 2)$

① $3p - 1$ ② Distribute

$- 4p - 2$ $= 3p - 1 - 4p - 2$

$-p - 3$ $= -p - 3$

- in front, terms change to opposite

c) $(5x + 3y + 4) - 1(3x - 2y + 1)$

$= 5x + 3y + 4 - 3x + 2y - 1$

$= 2x + 5y + 3$

d) $-(x - 3) + (2x + 5)$

$= -x + 3 + 2x + 5$

$= x + 8$

e) $-(3a - b + 4) + (a + 5b - 2) - (2a - 3b - 6)$

$= -3a + b - 4 + a + 5b - 2 - 2a + 3b + 6$

$= -4a + 9b$

f) $2x - (5 + 4x) - 2$

$= 2x - 5 - 4x - 2$

$= -2x - 7$

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