

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

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

$\boxed{7x - 1}$ $= \boxed{7x - 1}$

+ in front, just
drop brackets

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

① $3p - 1$ ② Distribute

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

$\boxed{-p - 3}$ $= \boxed{-p - 3}$

- in front, terms change to opposite

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

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

$= \boxed{2x + 5y + 3}$

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

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

$= \boxed{x + 8}$

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

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

$= \boxed{-4a + 9b}$

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

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

$= \boxed{-2x - 7}$

→