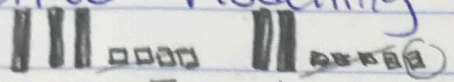
5.3 Adding & Subtracting Polynomials

Ex 1: Add Polynomials

Add $3x-4$ and $2x+5$.

Method 1: Modelling



$5x+1$

Method 2: Algebraically

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

$3x-4+2x+5$

$5x+1$

SYK: a) $(2a-1)+(6-4a)$

b) $(3t^2-5t)+(t^2+2t+1)$

Ex 2: Opposite Expression

What is the opposite of each?

a) $3x$ $-3x$

b) -2 $+2$

c) $4x-1$ $-4x+1$

d) a^2-3a+2 $-a^2+3a-2$

SYK: a) x b) $5-3x$ c) $7x^2+5x-1$

Ex 3: Subtract Polynomials

Subtract $2x+3$ from $3x-4$.

$1(3x-4)-1(2x+3)$

$3x-4-2x-3$

$x-7$

When subtracting,
- keep 1st polynomial
- switch $\pm$ to $+$
- make 2nd opposite

$(3x-4)+(-2x+3)$

$x-7$

SYK: a) $(2x-3)-(-x+2)$