- **N° 38 et 39 pg 77**

38 1. $D = 5x^2(x-3) - 6x(x+7)$
$= \boxed{x} \times 5x(x-3) - \boxed{x} \times 6(x+7)$

$E = (x+3)(6x+2) - (x+3)^2$
$= \boxed{(x+3)}(6x+2) - \boxed{(x+3)}(x+3)$

$F = (3x+2)(x+5) + 3x+2$
$= \boxed{(3x+2)}(x+5) + \boxed{(3x+2)} \times 1$

$G = (x+1)(4x+5) - x - 1$
$= \boxed{(x+1)}(4x+5) - 1 \times \boxed{(x+1)}$

2. $D = x(5x(x-3) - 6(x+7))$
$= x(5x^2 - 15x - 6x - 42) = x(5x^2 - 21x - 42)$

$E = (x+3)(6x+2-x-3) = (x+3)(5x-1)$

$F = (3x+2)(x+5+1) = (3x+2)(x+6)$

$G = (x+1)(4x+5-1) = (x+1)(4x-4)$

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$(8-3y)(y+5) + (8-3y)(y+6)$	$2(y+7)(y-3)$
$2y(y-3) + 14(y-3)$	$-(y+1)(y-3)$
$y^2(8-3y) + 4(8-3y)$	$(y^2+4)(8-3y)$
$-y(y-3) - y + 3$	$(2y+11)(8-3y)$