3ᵉ	Fiche compétences Alg chapitre 1	Littéral 2	(N42)

exercice 1:

Factoriser A

$A = 5x + 40$

exercice 2:

Factoriser B

$B = (x + 4) (x - 1) + (x + 4) (x - 2)$

exercice 3:

Factoriser C

$C = 5x + 7x$

exercice 4:

Factoriser D

$D = (2y + 4) (3x - 1) + (2x + 8) (2y + 4)$

exercice 5:

Factoriser E

$E = 10y - 20$

exercice 6:

Factoriser F

$F = (2x + 7) (4x - 12) - (2x + 7) \ (x + 10)$

exercice 7:

Factoriser G

$G = 3y^2 + 6y$

exercice 8:

Factoriser H

$H = (y + 75) (9x + 75) - (y + 75) \ (x - 5)$

exercice 9:

Factoriser I

$I = 25y^3 + 5y^2 - 15y$

exercice 10:

Factoriser J

$J = (x + 1)^2 - 4 (x + 1)$

3ᵉ corrections	Fiche compétences Alg chapitre 1	Littéral 2 (N42)
exercice 1:	$A = 5x + 40$ $\quad = 5 \times x + 5 \times 8$ $\quad = 5 \,(\, x + 8 \,)$	
exercice 2:	$B = (\, x + 4 \,)(\, x - 1 \,) + (\, x + 4 \,)(\, x - 2 \,)$ $\quad = (\, x + 4 \,)\,[\,(\, x - 1 \,) + (\, x - 2 \,)\,]$ $\quad = (\, x + 4 \,)\,[\, x - 1 + x - 2 \,]$ $\quad = (\, x + 4 \,)(\, 2x - 3 \,)$	
exercice 3:	$C = 5x + 7x$ $\quad = x \,(\, 5 + 7 \,)$ $\quad = 12x$	
exercice 4:	$D = (\, 2y + 4 \,)(\, 3x - 1 \,) + (\, 2x + 8 \,)(\, 2y + 4 \,)$ $\quad = (\, 2y + 4 \,)\,[\,(\, 3x - 1 \,) + (\, 2x + 8 \,)\,]$ $\quad = (\, 2y + 4 \,)\,[\, 3x - 1 + 2x + 8 \,]$ $\quad = (\, 2y + 4 \,)(\, 5x + 7 \,)$	
exercice 5:	$E = 10y - 20$ $\quad = 10 \times y - 10 \times 2$ $\quad = 10 \,(\, y - 2 \,)$	
exercice 6:	$F = (\, 2x + 7 \,)(\, 4x - 12 \,) - (\, 2x + 7 \,)\,(\, x + 10 \,)$ $\quad = (\, 2x + 7 \,)\,[\,(\, 4x - 12 \,) - (\, x + 10 \,)\,]$ $\quad = (\, 2x + 7 \,)\,[\, 4x - 12 - x - 10 \,]$ $\quad = (\, 2x + 7 \,)(\, 3x - 22 \,)$	
exercice 7:	$G = 3y^2 + 6y$ $\quad = 3y \times y + 3y \times 2$ $\quad = 3y \,(\, y + 2 \,)$	
exercice 8:	$H = (\, y + 75 \,)(\, 9x + 75 \,) - (\, y + 75 \,)\,(\, x - 5 \,)$ $\quad = (\, y + 75 \,)\,[\,(\, 9x + 75 \,) - (\, x - 5 \,)\,]$ $\quad = (\, y + 75 \,)\,[\, 9x + 75 - x + 5 \,]$ $\quad = (\, y + 75 \,)(\, 8x + 80 \,)$	
exercice 9:	$I = 25y^3 + 5y^2 - 15y$ $\quad = 5y \times 5y^2 + 5y \times y - 5y \times 3$ $\quad = 5y \,(\, 5y^2 + y - 3 \,)$	

exercice 10:

$J = (x + 1)^2 - 4(x + 1)$

$= (x + 1)[(x + 1) - 4]$

$= (x + 1)[x + 1 - 4]$

$= (x + 1)(x - 3)$