

CORRECTION DE L'INTERROGATION N° 4 (sujet A)	3 ^{ème}
Exercice 1 (commun aux deux sujets) $(a+b)^2 = a^2 + 2ab + b^2 ; (a-b)^2 = a^2 - 2ab + b^2 ; (a+b)(a-b) = a^2 - b^2$	
Exercice 2 1) $(12+x)^2 = 12^2 + 2 \times 12 \times x + x^2 = 144 + 24x + x^2$ 2) $(x-8)^2 = x^2 - 2 \times 8 \times x + 8^2 = x^2 - 16x + 64$ 3) $(x+3)(x-3) = x^2 - 3^2 = x^2 - 9$	
Exercice 3 1) $12 + 3x = \boxed{3} \times 4 + \boxed{3} \times x = 3(4+x)$ 2) $2x - 8x^2 = \boxed{2x} \times 1 - \boxed{2x} \times 4x = 2x(1-4x)$ 3) $7\boxed{(x-5)} - 2\boxed{(x-5)}(9-2x) = \boxed{(x-5)}[7 - 2(9-2x)] = (x-5)(7-18+4x)$ $= (x-5)(-11+4x)$ 4) $25x^2 + 70x + 49 = (5x)^2 + 2 \times 5x \times 7 + 7^2 = (5x+7)^2$ 5) $9x^2 + 16 - 24x = 9x^2 - 24x + 16 = (3x)^2 - 2 \times 3x \times 4 + 4^2 = (3x-4)^2$ 6) $x^2 - 81 = x^2 - 9^2 = (x+9)(x-9)$	
CORRECTION DE L'INTERROGATION N° 4 (sujet B)	3 ^{ème}
Exercice 2 1) $(x-11)^2 = x^2 - 2 \times 11 \times x + 11^2 = x^2 - 22x + 121$ 2) $(x+9)^2 = x^2 + 2 \times 9 \times x + 9^2 = x^2 + 18x + 81$ 3) $(x+6)(x-6) = x^2 - 6^2 = x^2 - 36$	
Exercice 3 1) $21 + 7x = \boxed{7} \times 3 + \boxed{7} \times x = 7(3+x)$ 2) $4x - 16x^2 = \boxed{4x} \times 1 - \boxed{4x} \times 4x = 4x(1-4x)$ 3) $2\boxed{(x-3)} - 2\boxed{(x-3)}(7-3x) = \boxed{(x-3)}[2 - 2(7-3x)] = (x-3)(2-14+6x)$ $= (x-3)(-12+6x)$ 4) $16x^2 + 40x + 25 = (4x)^2 + 2 \times 4x \times 5 + 5^2 = (4x+5)^2$ 5) $4x^2 + 9 - 12x = 4x^2 - 12x + 9 = (2x)^2 - 2 \times 2x \times 3 + 3^2 = (2x-3)^2$ 6) $x^2 - 49 = x^2 - 7^2 = (x+7)(x-7)$	