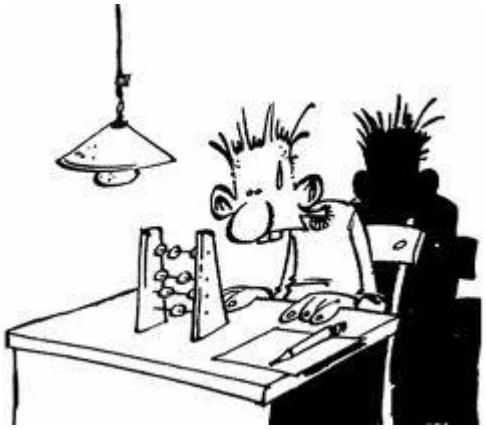
Corrections



Corrigés Savoir Cf. 1

Corrigé Exercice 1

1)

$A = \mathbf{4x(2x-1)}$ $\quad B = \mathbf{5(1+3x)}$

$C = \mathbf{3(3-x^2)}$ $\quad D = \mathbf{x(-12x+7)}$

$E = \mathbf{5x(1-x)}$ $\quad F$ **non factorisable**

$H = \mathbf{a(-7b+2a)}$ $\quad J = \mathbf{-5x(2x^2+5)}$

$K = \mathbf{2x(3-2x)}$	$L = \mathbf{4a(1+a)}$
$M = \mathbf{-n(12n+7)}$	N **non factorisable** (« naturellement)
$P = \mathbf{3x(2+x)}$	$Q = \mathbf{ab(3a-b)}$
$V = \mathbf{2(2x^2+6x-1)}$	$W = \mathbf{x(3x^2+2x+5)}$
$Y = \mathbf{3x(3-x+5x^2)}$	$Z = \mathbf{ab(3a+ab-5b)}$

2)

$R = \mathbf{2(x^2-11x-1)}$ $\quad S = \mathbf{4(x-1+x^2)}$ $\quad T = \mathbf{2x(2x^2-3x+4)}$ $\quad U = \mathbf{5x^2(3x^2-2x+1)}$

Corrigé Exercice 2

1)

$A = \frac{2}{3}x - \frac{1}{3}x$	$B = 5x + \frac{2}{7}x$	$C = \frac{2a}{3} - 4a$	$D = \frac{x}{5} + \frac{3x}{2}$	$E = n - \frac{4n}{3}$
$A = \left(\frac{2}{3} - \frac{1}{3}\right)x$	$B = \left(5 + \frac{2}{7}\right)x$	$C = \left(\frac{2}{3} - 4\right)a$	$D = \left(\frac{1}{5} + \frac{3}{2}\right)x$	$E = \left(1 - \frac{4}{3}\right)n$
$\boldsymbol{A = \frac{1}{3}x}$	$\boldsymbol{B = \frac{37}{7}x}$	$\boldsymbol{C = -\frac{10}{3}a}$	$D = \boldsymbol{\frac{17}{10}x}$	$E = \boldsymbol{-\frac{1}{3}n}$

2)

$F = (1-3)\sqrt{7}$	$G = \left(\frac{3}{4} - 1\right)\pi$	$H = \mathbf{(12-6x)\sqrt{x}}$	$I = \left(\frac{2}{3} - \frac{1}{4}\right)\pi$	$J = \left(3 - \frac{2}{5}\right)\sqrt{2}$
$F = \mathbf{-2\sqrt{7}}$	$G = \boldsymbol{-\frac{1}{4}\pi}$		$I = \boldsymbol{\frac{5}{12}\pi}$	$J = \boldsymbol{\frac{13}{5}\sqrt{2}}$

Corrigé Exercice 3

1) $A = 2(2x^2 - \frac{5}{2}x + \frac{1}{2})$ et $B = 2\left(-x^2 + \frac{1}{2}x - 2\right)$

2) $A = -(-4x^2 + 5x - 1)$ et $B = -(2x^2 - x + 4)$

3) $A = x\left(4x - 5 + \frac{1}{x}\right)$ et $C = x\left(x^2 + 3x - 8 + \frac{4}{x}\right)$

4) $B = x^2\left(-2 + \frac{x}{x^2} - \frac{4}{x^2}\right) = x^2\left(-2 + \frac{1}{x} - \frac{4}{x^2}\right)$ et $C = x^2\left(x + 3 - \frac{8x}{x^2} + \frac{4}{x^2}\right) = x^2\left(x + 3 - \frac{8}{x} + \frac{4}{x^2}\right)$