

exercice 3.

$$* A = \frac{7}{3} (6x+3) + \frac{5}{2} (4-2x)$$

$$A = \frac{7}{3} \times 6x + \frac{7}{3} \times 3 + \frac{5}{2} \times 4 - \frac{5}{2} \times 2x$$

$$A = \frac{42}{3} x + 7 + \frac{20}{2} - 5x \quad \text{car } \frac{42}{3} = 42:3 = 14$$

$$A = 14x + 7 + 10 - 5x$$

$$A = 9x + 17$$

$$* B = 4(1-7y) + (4y-5)(y-1)$$

$$B = 4 \times 1 - 4 \times 7y + 4y^2 - 9y + 5$$

$$B = 4 - 28y + 4y^2 - 9y + 5$$

$$B = 4y^2 - 37y + 9$$

x	y	-1
4y	4y ²	-4y = -9y
-5	-5y	+5

$$* C = 3t(t+1) + (5+t)(t-2)$$

$$C = 3t \times t + 3t \times 1 + 3t + t^2 - 10$$

$$C = 3t^2 + 3t + 3t + t^2 - 10$$

$$C = 4t^2 + 6t - 10$$

x	t	-2
5	5t	-10
+t	+t ²	-2t

$$* D = (4k-1)(9+k) - 9k(10-3k)$$

$$D = 4k \times 9 + 4k \times k - 1 \times 9 - 1 \times k - 9k \times 10 - 9k \times (-3k)$$

$$D = 36k + 4k^2 - 9 - k - 90k + 27k^2$$

$$D = 31k^2 - 55k - 9$$

$$* E = (m+2)(8+3m) - 2(1-m)(m-7)$$

x	8	+3m
m	8m	+3m ²
+2	+16	+6m

- 2 x

x	m	-7
1	m	-7
-m	-m ²	+7m

$$E = 3m^2 + 14m + 16 - 2 \times (8m - m^2 - 7)$$

$$E = 3m^2 + 14m + 16 - 2 \times 8m - 2 \times (-m^2) - 2 \times (-7)$$

$$E = 3m^2 + 14m + 16 - 16m + 2m^2 + 14$$

$$E = 5m^2 - 2m + 30$$