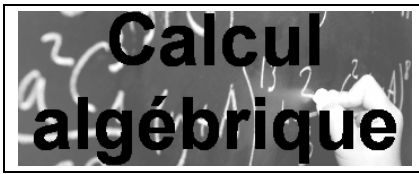

Développements

Exercice 1 : Corrigé

$$A = 6(x+3)+2(x-5)$$
$$= 6x+18+2x-10$$
$$A = 8x+8$$

Exercice 2 : Corrigé

$$B = 3(4x-1)-2(x-5)$$
$$= 12x-3-2x+10$$
$$B = 10x+7$$

Exercice 3 : Corrigé

$$C = -5(x^2+6x-4)-3(x^2-3x+1)$$
$$= -5x^2-30x+20-3x^2+9x-3$$
$$C = -8x^2-21x+17$$

Exercice 4 : Corrigé

$$D = \frac{3}{2}\left(4x-\frac{4}{3}\right)+\frac{2}{3}(-6x+12)$$
$$= \frac{3\times 4}{2}x-\frac{3\times 4}{2\times 3}-\frac{2\times 6}{3}x+\frac{12\times 2}{3}$$
$$= 6x-2-4x+8$$
$$D = 2x+6$$

Exercice 5 : Corrigé

$$E = (x+6)^2-2(x+6)$$
$$= x^2+12x+36-2x-12$$
$$E = x^2+10x+24$$

Exercice 6 : Corrigé

$$F = 5\left(-2x^2+\frac{3}{2}x-3\right)+3\left(x^2+\frac{3}{2}x-1\right)$$
$$= -10x^2+\frac{15}{2}x-15+3x^2+\frac{9}{2}x-3$$
$$= -7x^2+\frac{24}{2}x-18$$
$$F = -7x^2+12x-18$$

Exercice 7 : Corrigé

$$G = \frac{1}{3}x(6x-4)-x\left(x-\frac{2}{3}\right)$$
$$= 2x^2-\frac{4}{3}x-x^2+\frac{2}{3}x$$
$$G = x^2-\frac{2}{3}x$$

Exercice 8 : Corrigé

$$H = 3(4x-1)^2-2(3x+5)^2$$
$$= 3(16x^2-8x+1)-2(9x^2+30x+25)$$
$$= 48x^2-24x+3-18x^2-60x-50$$
$$H = 30x^2-84x-47$$

Exercice 9 : Corrigé

$$I = 2(-3x-5)^2-(3x-2)^2$$
$$= 2(9x^2+30x+25)-(9x^2-12x+4)$$
$$= 18x^2+60x+50-9x^2+12x-4$$
$$I = 9x^2+72x+46$$