

Exercice 1:

$$A = -(-9x + 5) = -(-9x) - (+5) = \boxed{9x - 5}$$

$$B = +(-3x + 8) = +(-3x) + (+8) = \boxed{-3x + 8}$$

$$\begin{aligned} C &= 3x + 6 - (6x + 1) = 3x + 6 - 6x - (+1) \\ &= 3x + 6 - 6x - 1 \\ &= \boxed{-3x + 5} \end{aligned}$$

$$\begin{aligned} D &= -6 + 2x + (-9x + 5) \\ &= -6 + 2x + (-9x) + (+5) \\ &= -6 + 2x - 9x + 5 \\ &= \boxed{-7x - 1} \end{aligned}$$

$$\begin{aligned} E &= -(-7x + 6) + 8 + 6x \\ &= 7x - 6 + 8 + 6x \\ &= \boxed{13x + 2} \end{aligned}$$

$$\begin{aligned} F &= -8x - (6x - 10) + 6 \\ &= -8x - 6x + 10 + 6 \\ &= \boxed{-14x + 16} \end{aligned}$$

$$\begin{aligned}
 G &= -(-8x+2) - 9x - 3 \\
 &= 8x - 2 - 9x - 3 \\
 &= -x - 5
 \end{aligned}$$

$$\begin{aligned}
 I &= -9x - (6x+4) - 2 \\
 &= -9x - 6x - 4 - 2 \\
 &= -15x - 6
 \end{aligned}$$

$$\begin{aligned}
 K &= 9x - (-10x - 8) + 10 \\
 &= 9x + 10x + 8 + 10 \\
 &= 19x + 18
 \end{aligned}$$

$$\begin{aligned}
 M &= 8x + 9 - (-10x) - 1 \\
 &= 8x + 9 + 10x - 1 \\
 &= 18x + 8
 \end{aligned}$$

$$\begin{aligned}
 O &= -5x + 7 + (x+9) \\
 &= -5x + 7 + x + 9 \\
 &= -4x + 16
 \end{aligned}$$

$$\begin{aligned}
 Q &= -7x + (-9x - 8) - 3 \\
 &= -7x - 9x - 8 - 3 \\
 &= -16x - 11
 \end{aligned}$$

$$\begin{aligned}
 H &= -8x + (-9x - 6) - 5 \\
 &= -8x - 9x - 6 - 5 \\
 &= -17x - 11
 \end{aligned}$$

$$\begin{aligned}
 J &= -5 - 3x - (-4x + 2) \\
 &= -5 - 3x + 4x - 2 \\
 &= x - 7
 \end{aligned}$$

$$\begin{aligned}
 L &= 10x + 3 + 6x - 10 \\
 &= 16x - 7
 \end{aligned}$$

$$\begin{aligned}
 N &= 4 - (-6x - 6) - 4x \\
 &= 4 + 6x + 6 - 4x \\
 &= 2x + 10
 \end{aligned}$$

$$\begin{aligned}
 P &= -3 - 6x - (-2x - 10) \\
 &= -3 - 6x + 2x + 10 \\
 &= -4x + 7
 \end{aligned}$$

$$\begin{aligned}
 R &= -2 - (7x - 2) + 2x \\
 &= -2 - 7x + 2 + 2x \\
 &= -5x
 \end{aligned}$$

Exercise 2.

$$k \times (a+b) = k \times a + k \times b \quad k \times (a-b) = k \times a - k \times b \quad (2)$$

$$\begin{aligned} A &= 9 \times (x-7) \\ &= 9x - 9 \times 7 \\ &= \boxed{9x - 63} \end{aligned}$$

$$\begin{aligned} B &= 10 \times (5x+1) - 2x - 9 \\ &= 10 \times 5x + 10 \times 1 - 2x - 9 \\ &= 50x + 10 - 2x - 9 \\ &= \boxed{48x + 1} \end{aligned}$$

$$\begin{aligned} C &= 7 + (7x+9) \times 3 \\ &= 7 + 3 \times 7x + 3 \times 9 \\ &= 7 + 21x + 27 \\ &= \boxed{21x + 34} \end{aligned}$$

$$\begin{aligned} D &= 6x + 10 + (7x+8) \times 3 \\ &= 6x + 10 + 3 \times 7x + 3 \times 8 \\ &= 6x + 10 + 21x + 24 \\ &= \boxed{27x + 34} \end{aligned}$$

$$\begin{aligned} E &= -8 + 6 \times (-7x+2) \\ &= -8 - 42x + 12 \\ &= \boxed{-42x + 4} \end{aligned}$$

$$\begin{aligned} F &= (-7x-3) \times 9 + 9x \\ &= -63x - 27 + 9x \\ &= \boxed{-54x - 27} \end{aligned}$$

$$\begin{aligned} G &= (-5x+2) \times 6 + 7 \\ &= -30x + 12 + 7 \\ &= \boxed{-30x + 19} \end{aligned}$$

$$\begin{aligned} H &= 6 \times (-6x-7) - 8x \\ &= -36x - 42 - 8x \\ &= \boxed{-44x - 42} \end{aligned}$$

$$\begin{aligned} I &= 6 \times (4x+6) - 6x-9 \\ &= 24x + 36 - 6x - 9 \\ &= \boxed{18x + 27} \end{aligned}$$

$$\begin{aligned} J &= 1 + (-10x+10) \times 10 \\ &= 1 - 100x + 100 \\ &= \boxed{-100x + 101} \end{aligned}$$

$$\begin{aligned} K &= 2x + 2 \times (-5x-9) \\ &= 2x - 10x - 18 \\ &= \boxed{-8x - 18} \end{aligned}$$

$$\begin{aligned} L &= -2x + 1 + 4 \times (-8x-9) \\ &= -2x + 1 - 32x - 36 \\ &= \boxed{-34x - 35} \end{aligned}$$

$$M = 10 + 3 \times (-5x - 3)$$

$$= 10 - 15x - 9$$

$$\boxed{= -15x + 1.}$$

$$O = 10x + 10 + 4 \times (8x - 8)$$

$$= 10x + 10 + 32x - 32$$

$$\boxed{= 42x - 22.}$$

$$Q = 5 \times (-9x + 8) + 8x$$

$$= -45x + 40 + 8x$$

$$\boxed{= -37x + 40.}$$

$$N = -5x + 7 \times (7x + 5)$$

$$= -5x + 49x + 35.$$

$$\boxed{= 44x + 35.}$$

$$P = -9 + (-4x + 4) \times 2$$

$$= -9 - 8x + 8.$$

$$\boxed{= -8x - 1.}$$

$$R = -3 + 8 \times (-2x + 4)$$

$$= -3 - 16x + 32.$$

$$\boxed{= -16x + 29.}$$