

Calcul Littéral
Professeur : M. BA

Classe : 4 M2

Durée : 10 minutes

Note : /5

Nom de l'élève : _____

Question 1: (1,5 points)

$$\begin{array}{lll}
 A = -2 - 6 - 2 + 5 & B = -12 + 11 - 8 + 12 & C = -9 - 15 + 6 - 21 \\
 = (-2 - 6 - 2) + 5 & = (-12 - 8) + (11 + 12) & = (-9 - 15 - 21) + 6 \\
 = -10 + 5 & = -20 + 23 & = -45 + 6 \\
 = \mathbf{-5} & = \mathbf{3} & = \mathbf{-39}
 \end{array}$$

Question 2: (1,5 points)

$$\begin{array}{lll}
 D = (-2) \times (-7) + 5 & E = -15 + (5) \times (-9) + 9 & F = 2 - (-11) \times (7) - 15 + 2 + (-10) \times (4) \\
 = 14 + 5 & = -15 + (-45) + 9 & = 2 - (-77) - 15 + 2 + (-40) \\
 = \mathbf{19} & = -60 + 9 & = 2 + 77 - 15 + 2 - 40 \\
 & = \mathbf{-51} & = 81 - 55 \\
 & & = \mathbf{26}
 \end{array}$$



Question 3: (2 points)

$$\begin{array}{ll}
 G = -\frac{7}{5} + \frac{9}{10} - \frac{12}{5} + \frac{4}{10} & H = -\frac{7}{3} \times \frac{9}{2} - \frac{12}{4} \times \frac{4}{9} \\
 = \left(-\frac{7}{5} - \frac{12}{5} \right) + \left(\frac{9}{10} + \frac{4}{10} \right) & = -\frac{7 \times 9}{3 \times 2} - \frac{12 \times 4}{4 \times 9} \\
 = -\frac{19}{5} + \frac{13}{10} & = -\frac{63}{6} - \frac{48}{36} \quad (\text{Simplification :}) \\
 = -\frac{19 \times 2}{10} + \frac{13}{10} = \frac{-38 + 13}{10} & = -\frac{21}{2} - \frac{4}{3} \quad (\text{Dénominateur commun } 6) \\
 = -\frac{25}{10} & = -\frac{21 \times 3}{6} - \frac{4 \times 2}{6} \\
 = \frac{5}{2} & = \frac{-63 - 8}{6} \\
 & = -\frac{\mathbf{71}}{6}
 \end{array}$$