

L'usage de la calculatrice est interdit pour ce devoir.

NOM :

PRÉNOM :

Exercice : 10 points. Calculez les expressions suivantes :

$$\begin{aligned}
 1) (+13) + (-5) - (+14) - (+17) - (-13) &= 13 - 5 - 14 - 17 + 13 \\
 &= -5 - 14 - 17 + 13 + 13 \\
 &= -36 + 26 \\
 &= -10
 \end{aligned}$$

$$\begin{aligned}
 2) -7 + 2 + 4 - 8 - 9 &= -7 - 8 - 9 + 2 + 4 \\
 &= -24 + 6 \\
 &= -18
 \end{aligned}$$

$$\begin{aligned}
 3) 12 - 23 + 2 - 5 - 7 &= -23 - 5 - 7 + 12 + 2 \\
 &= -35 + 14 \\
 &= -21
 \end{aligned}$$

$$\begin{aligned}
 4) 3 + 8 \times (-5) &= 3 + (-40) \\
 &= 3 - 40 \\
 &= -37
 \end{aligned}$$

$$\begin{aligned}
 5) 7 - 3 \times (-4) + 2 &= 7 - (-12) + 2 \\
 &= 7 + 12 + 2 \\
 &= 21
 \end{aligned}$$

$$\begin{aligned}
 6) 13 + 5 \times (3 - 11) - 7 &= 13 + 5 \times (-8) - 7 \\
 &= 13 + 5 \times (-8) - 7 \\
 &= 13 + (-40) - 7 \\
 &= 13 - 40 - 7 \\
 &= 13 - 47 \\
 &= 13 - 34
 \end{aligned}$$

$$\begin{aligned}
 7) -9 + \frac{-30}{5} \times (-3) + (-3) \times (-5) &= -9 + (-6) \times (-3) + (-3) \times (-5) \\
 &= -9 + 18 + 15 \\
 &= -9 + 33 \\
 &= 24
 \end{aligned}$$

$$\begin{aligned}
 8) \frac{-3 - (-3 + 4 \times (-5))}{7 - 6 \times (-3)} &= \frac{-3 - (-3 + (-20))}{7 - (-18)} \\
 &= \frac{-3 - (-3 - 20)}{7 + 8} \\
 &= \frac{-3 - (-23)}{15} \\
 &= \frac{-3 + 23}{15} \\
 &= \frac{20}{15}
 \end{aligned}$$

$$\begin{aligned}
 9) 2 - 5 \times (1 + 4 \times (-5)) &= 2 - 5 \times (1 + (-20)) \\
 &= 2 - 5 \times (-19) \\
 &= 2 + 95 \\
 &= 97
 \end{aligned}$$

$$\begin{aligned}
 10) \frac{-4 - 7 \times (-2)}{7 \times (-2) + 4} &= \frac{-4 + 14}{-14 + 4} \\
 &= \frac{10}{-10} \\
 &= \frac{-10}{10} \\
 &= -1
 \end{aligned}$$