

Distributivité

Niveau de difficulté : facile

1 Enoncé

Développer et réduire les expressions suivantes :

$$A=46(-10+2t)$$

$$C=-28(19x-15)$$

$$E=8(18+3z)$$

$$G=-14(-36y-36)$$

$$I=39(7z-25)$$

$$K=-8(-28+45x)$$

$$M=19(23x+15)$$

$$O=-11(-43-18x)$$

$$Q=-14(-34-48x)$$

$$S=-31(18+42z)$$

$$B=-16(-11+4y)$$

$$D=-32(-50y-41)$$

$$F=44(38+40x)$$

$$H=-42(-6-49t)$$

$$J=-49(45-12x)$$

$$L=-11(3x+30)$$

$$N=-37(26+2y)$$

$$P=-15(-41+16y)$$

$$R=-30(-23t+44)$$

$$T=34(-23y+13)$$

2 Corrigé

$$\begin{aligned}A &= 46(-10 + 2t) \\ A &= 46 \times (-10) + 46 \times 2t \\ A &= -460 + 92t \\ A &= 92t - 460\end{aligned}$$

$$\begin{aligned}C &= -28(19x - 15) \\ C &= -28 \times 19x - 28 \times (-15) \\ C &= -532x + 420\end{aligned}$$

$$\begin{aligned}E &= 8(18 + 3z) \\ E &= 8 \times 18 + 8 \times 3z \\ E &= 144 + 24z \\ E &= 24z + 144\end{aligned}$$

$$\begin{aligned}G &= -14(-36y - 36) \\ G &= -14 \times (-36y) - 14 \times (-36) \\ G &= 504y + 504\end{aligned}$$

$$\begin{aligned}I &= 39(7z - 25) \\ I &= 39 \times 7z + 39 \times (-25) \\ I &= 273z - 975\end{aligned}$$

$$\begin{aligned}K &= -8(-28 + 45x) \\ K &= -8 \times (-28) - 8 \times 45x \\ K &= 224 - 360x \\ K &= -360x + 224\end{aligned}$$

$$\begin{aligned}M &= 19(23x + 15) \\ M &= 19 \times 23x + 19 \times 15 \\ M &= 437x + 285\end{aligned}$$

$$\begin{aligned}O &= -11(-43 - 18x) \\ O &= -11 \times (-43) - 11 \times (-18x) \\ O &= 473 + 198x \\ O &= 198x + 473\end{aligned}$$

$$\begin{aligned}Q &= -14(-34 - 48x) \\ Q &= -14 \times (-34) - 14 \times (-48x) \\ Q &= 476 + 672x \\ Q &= 672x + 476\end{aligned}$$

$$\begin{aligned}S &= -31(18 + 42z) \\ S &= -31 \times 18 - 31 \times 42z \\ S &= -558 - 1302z \\ S &= -1302z - 558\end{aligned}$$

$$\begin{aligned}B &= -16(-11 + 4y) \\ B &= -16 \times (-11) - 16 \times 4y \\ B &= 176 - 64y \\ B &= -64y + 176\end{aligned}$$

$$\begin{aligned}D &= -32(-50y - 41) \\ D &= -32 \times (-50y) - 32 \times (-41) \\ D &= 1600y + 1312\end{aligned}$$

$$\begin{aligned}F &= 44(38 + 40x) \\ F &= 44 \times 38 + 44 \times 40x \\ F &= 1672 + 1760x \\ F &= 1760x + 1672\end{aligned}$$

$$\begin{aligned}H &= -42(-6 - 49t) \\ H &= -42 \times (-6) - 42 \times (-49t) \\ H &= 252 + 2058t \\ H &= 2058t + 252\end{aligned}$$

$$\begin{aligned}J &= -49(45 - 12x) \\ J &= -49 \times 45 - 49 \times (-12x) \\ J &= -2205 + 588x \\ J &= 588x - 2205\end{aligned}$$

$$\begin{aligned}L &= -11(3x + 30) \\ L &= -11 \times 3x - 11 \times 30 \\ L &= -33x - 330\end{aligned}$$

$$\begin{aligned}N &= -37(26 + 2y) \\ N &= -37 \times 26 - 37 \times 2y \\ N &= -962 - 74y \\ N &= -74y - 962\end{aligned}$$

$$\begin{aligned}P &= -15(-41 + 16y) \\ P &= -15 \times (-41) - 15 \times 16y \\ P &= 615 - 240y \\ P &= -240y + 615\end{aligned}$$

$$\begin{aligned}R &= -30(-23t + 44) \\ R &= -30 \times (-23t) - 30 \times 44 \\ R &= 690t - 1320\end{aligned}$$

$$\begin{aligned}T &= 34(-23y + 13) \\ T &= 34 \times (-23y) + 34 \times 13 \\ T &= -782y + 442\end{aligned}$$