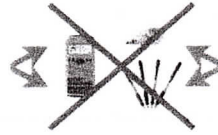


Nom et Prénom :

Test n°8 :
Simple distributivité

Classe :



Consignes : Calculatrice interdite.

Note :	Appréciation :
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■ EXERCICE 1. Développez et simplifiez les expressions suivantes

/6

1) $A = 4(x + 2)$

4) $D = -6x(4x + 5)$

2) $B = 7(x - 5)$

5) $E = y(3x + 8)$

3) $C = -2(4 - 3x)$

6) $F = -a(x - 3a)$

$$\begin{aligned} A &= 4(x+2) \\ &= 4x + 8 \\ &= \underline{4x + 8} \end{aligned}$$

$$\begin{aligned} D &= -6x(4x+5) \\ &= -6x \times 4x + (-6x) \times 5 \\ &= \underline{-24x^2 - 30x} \end{aligned}$$

$$\begin{aligned} B &= 7(x-5) \\ &= 7x + 7 \times (-5) \\ &= \underline{7x - 35} \end{aligned}$$

$$\begin{aligned} E &= y(3x+8) \\ &= y \times 3x + y \times 8 \\ &= \underline{3xy + 8y} \end{aligned}$$

$$\begin{aligned} C &= -2(4-3x) \\ &= -2 \times 4 + (-2) \times (-3x) \\ &= \underline{-8 + 6x} \end{aligned}$$

$$\begin{aligned} F &= -a(x-3a) \\ &= -ax + (-a) \times (-3a) \\ &= \underline{-ax + 3a^2} \end{aligned}$$

Tournez, SVP !

■ EXERCICE 2. Factorise les expressions suivantes

1) $A = 4x + 8$

2) $B = 9 - 3x$

3) $C = 2x - 2$

4) $D = 4x^2 - x$

5) $E = xy - 7x$

6) $F = -6x - 36$

$$\begin{aligned} A &= 4x + 8 \\ &= \underline{4}x + \underline{4} \times 2 \\ &= \underline{4(x+2)} \end{aligned}$$

$$\begin{aligned} D &= 4x^2 - x \\ &= \underline{4}x \times x - \underline{x} \times 1 \\ &= \underline{x(4x-1)} \end{aligned}$$

$$\begin{aligned} B &= 9 - 3x \\ &= \underline{3} \times 3 - \underline{3} \times x \\ &= \underline{3(3-x)} \end{aligned}$$

$$\begin{aligned} E &= xy - 7x \\ &= \underline{x} \times y - \underline{7x} \times \underline{x} \\ &= \underline{x(y-7)} \end{aligned}$$

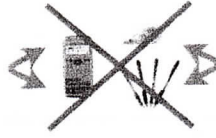
$$\begin{aligned} C &= 2x - 2 \\ &= \underline{2}x - \underline{2} \times 1 \\ &= \underline{2(x-1)} \end{aligned}$$

$$\begin{aligned} F &= -6x - 36 \\ &= \underline{-6}x - \underline{-6} \times 6 \\ &= \underline{-6(-x-6)} \text{ ou } -6(x+6) \end{aligned}$$

Nom et Prénom :

Test n°8 :
Simple distributivité

Classe :



Consignes : Calculatrice interdite.

Note :	Appréciation :
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■ EXERCICE 1. Développe et simplifie les expressions suivantes

/6

1) $A = 5(x + 3)$

2) $B = 3(x - 5)$

3) $C = -2(4 - 3x)$

4) $D = -8x(3x + 4)$

5) $E = y(3x + 5)$

6) $F = -a(x - 2a)$

$$\begin{aligned} A &= 5(x+3) \\ &= 5 \times x + 5 \times 3 \\ &= \underline{5x + 15} \end{aligned}$$

$$\begin{aligned} B &= 3(x-5) \\ &= 3 \times x + 3 \times (-5) \\ &= \underline{3x - 15} \end{aligned}$$

$$\begin{aligned} C &= -2(4-3x) \\ &= -2 \times 4 + (-2) \times (-3x) \\ &= \underline{-8 + 6x} \end{aligned}$$

$$\begin{aligned} D &= -8x(3x+4) \\ &= -8x \times 3x + (-8x) \times 4 \\ &= \underline{-24x^2 - 32x} \end{aligned}$$

$$\begin{aligned} E &= y(3x+5) \\ &= y \times 3x + y \times 5 \\ &= \underline{3xy + 5y} \end{aligned}$$

$$\begin{aligned} F &= -a(x-2a) \\ &= -a \times x + (-a) \times (-2a) \\ &= \underline{-ax + 2a^2} \end{aligned}$$

Tournez, SVP !

■ EXERCICE 2. Factorise les expressions suivantes

/6

1) $A = 2x + 4$

4) $D = 2x^2 - x$

2) $B = 12 - 6x$

5) $E = xy - 3x$

3) $C = 3x - 3$

6) $F = -5x - 15$

$$\begin{aligned} A &= 2x + 4 \\ &= \underline{2}x + \underline{2} \times 2 \\ &= \underline{2(x+2)} \end{aligned}$$

$$\begin{aligned} D &= 2x^2 - x \\ &= \underline{2}x \times x - \underline{x} \times 1 \\ &= \underline{x(2x-1)} \end{aligned}$$

$$\begin{aligned} B &= 12 - 6x \\ &= \underline{2} \times \underline{6} - \underline{6} \times x \\ &= \underline{6(2-x)} \end{aligned}$$

$$\begin{aligned} E &= xy - 3x \\ &= \underline{x} \times y - \underline{3} \times \underline{x} \\ &= \underline{x(y-3)} \end{aligned}$$

$$\begin{aligned} C &= 3x - 3 \\ &= \underline{3} \times x - \underline{3} \times 1 \\ &= \underline{3(x-1)} \end{aligned}$$

$$\begin{aligned} F &= -5x - 15 \\ &= \underline{-5} \times x - \underline{-5} \times 3 \\ &= \underline{5(-x-3)} \text{ ou } -5(x+3) \end{aligned}$$