

1. Additionnez les polynômes suivants :

Exemple : $(6x-7)+(4x+5)=10x-2$

a. $(3p+5)+(4p+5)=$	$\begin{array}{r} 3p+5 \\ 4p+5 \\ \hline 7p+10 \end{array}$
b. $(2x^2+3x+7)+(8x^2+3x+4)=$	$\begin{array}{r} 2x^2+3x+7 \\ 8x^2+3x+4 \\ \hline 10x^2+6x+11 \end{array}$
c. $(m^2+5)+(m^2+4)=$	$\begin{array}{r} m^2+5 \\ m^2+4 \\ \hline 2m^2+9 \end{array}$
d. $(5x-3)+(4x+7)+(2x-6)=$	$\begin{array}{r} 5x-3 \\ 4x+7 \\ 2x-6 \\ \hline 11x-2 \end{array}$
e. $(k^2+6k-5)+(k^2-8k-4)=$	$\begin{array}{r} k^2+6k-5 \\ k^2-8k-4 \\ \hline 2k^2-2k-9 \end{array}$
f. $(3a+4b+c)+(5a-4b+2c)=$	$\begin{array}{r} 3a+4b+c \\ 5a-4b+2c \\ \hline 8a+3c \end{array}$
g. $(3x+4)+(5x+2)+2x=$	$\begin{array}{r} 3x+4 \\ 5x+2 \\ 2x \\ \hline 10x+6 \end{array}$
h. $(5x^2+4x-7)+(-5x^2-4x+7)=$	$\begin{array}{r} 5x^2+4x-7 \\ -5x^2-4x+7 \\ \hline 0 \end{array}$
i.	$\begin{array}{r} 3t^2+5t+2 \\ + 4t^2+3t+2 \\ \hline 7t^2+8t+4 \end{array}$
j.	$\begin{array}{r} 5x^2-4x-8 \\ + 6x^2-9x+7 \\ \hline 11x^2-13x-1 \end{array}$
k.	$\begin{array}{r} e^2+6e+9 \\ + e^2+4e+4 \\ \hline 2e^2+10e+13 \end{array}$
l.	$\begin{array}{r} 3a-9 \\ + 2a^2+2a+2 \\ \hline 2a^2+5a-7 \end{array}$

2. Soustrayez les polynômes suivants

Quand on soustraie, on additionne l'opposé du deuxième polynôme.

Exemple :

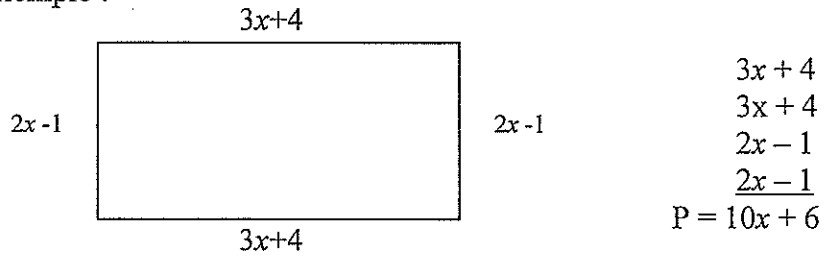
$$(5x^3 - 3x - 7) - (8x^3 + 6x - 2) =$$

$$(5x^3 - 3x - 7) + (-8x^3 - 6x + 2) = -3x^3 - 9x - 5$$

$\text{a. } (3p^2 + 5p - 2) + (\overline{7p^2 + 5p + 4}) = \begin{array}{r} 3p^2 + 5p - 2 \\ -7p^2 + 5p - 4 \\ \hline -4p^2 + 10p - 6 \end{array}$	
$\text{b. } (6x^2 + 2x - 2) + (\overline{x^2 + 4x + 1}) = \begin{array}{r} 6x^2 + 2x - 2 \\ -x^2 - 4x + 1 \\ \hline 5x^2 - 2x - 1 \end{array}$	
$\text{c. } (2m^2 - y + 3) + (\overline{3m^2 + y + 4}) = \begin{array}{r} 2m^2 - y + 3 \\ -3m^2 + y + 4 \\ \hline -m^2 + 7 \end{array}$	
$\text{d. } (h^2 + h - 6) + (\overline{h^2 + 5h + 6}) = \begin{array}{r} h^2 + h - 6 \\ -h^2 - 5h + 6 \\ \hline -4h \end{array}$	
$\text{e. } (4k^2 + 3k + 5) + (\overline{4k^2 + 3k + 4}) = \begin{array}{r} 4k^2 + 3k + 5 \\ -4k^2 + 3k - 4 \\ \hline 6k + 1 \end{array}$	
$\text{i. } \begin{array}{r} 3t^2 + 5t - 2 \\ -2t^2 + 3t + 7 \\ \hline t^2 + 8t - 9 \end{array}$	$\text{j. } \begin{array}{r} 5x^2 - 2x - 8 \\ -x^2 - 6x + 3 \\ \hline \end{array}$
$\text{k. } \begin{array}{r} 4e^2 - 3e + 2 \\ -4e^2 + 3e + 6 \\ \hline -6e - 4 \end{array}$	$\text{l. } \begin{array}{r} 8a^2 - 8a - 3 \\ -4a + 2 \\ \hline 8a^2 - 12a - 5 \end{array}$

3. Écrivez un polynôme qui représente le périmètre de chaque figure.

Exemple :



a)

$2m+1$ $4m+7$ $2m$

$5m+7$

$2m+1$
 $4m+7$
 $2m$
 $5m+7$

 $13m+15$

b)

x^2+3x+2 $x^2+8x+15$

$2x^2+x-3$

$x^2+8x+15$
 x^2+3x+2
 $2x^2+x-3$

 $4x^2+12x+14$

c)

$4m-3$

$4m-3$ $4m-3$

$4m-3$

$4m-3$
 $4m-3$
 $4m-3$
 $4m-3$

 $16m-12$

d)

$2b+1$

$2b+1$ $2b+1$

$2b+1$

$2b+1$ $2b+1$

$2b+1$

$2b+1$
 $2b+1$
 $2b+1$
 $2b+1$
 $2b+1$
 $2b+1$

 $8b+6$

