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JE REVISE MON BREVET SUR maths974.fr !

On donne le programme suivant qui permet de tracer plusieurs triangles équilatéraux de tailles différentes.
Ce programme comporte une variable nommée « côté ». Les longueurs sont données en pixels.
On rappelle que l'instruction **s'orienter à 90°** signifie que l'on se dirige vers la droite.

Numéros d'instruction	Script	Le bloc triangle
1	Quand [clic] est cliqué	définir triangle
2	effacer tout	stylo en position écriture
3	aller à x: -200 y: -100	répéter 3 fois
4	s'orienter à 90°	avancer de côté
5	Mettre côté à 100	tourner de 120 degrés
6	répéter 3 fois	↑
7	triangle	relevé le stylo
8	avancer de côté	
9	Ajouter à côté -> -20	
	↑	

1. Quelles sont les coordonnées du point de départ du tracé?
2. Combien de triangles sont dessinés par le script?
3.

a. Quelle est la longueur (en pixels) du côté du deuxième triangle tracé?

b. Tracer à main levée l'allure de la figure obtenue quand on exécute ce script.
4. On modifie le script initial pour obtenir la figure ci-contre.
Indiquer le numéro d'une instruction du script après laquelle on peut placer l'instruction **tourner de 60 degrés** pour obtenir cette nouvelle figure.



Calcul littéral

La distributivité simple

$$a \times (b + c) = a \times b + a \times c$$

Cette loi est une loi simple car elle ne fait intervenir qu'un seul terme et ne concerne que la loi de distributivité.

$$k(a + b) = ka + kb$$

Développer c'est écrire un produit de facteurs en une somme de termes.
Factoriser c'est écrire une somme de termes en un produit de facteurs.

Exemple 1 :

$$3(x + 4) = 3x + 12$$
$$2x(3x - 7) = 6x^2 - 14x$$
$$-4(5x - 8) = -20x + 32$$
$$6(2y - 1) = 12y - 6$$

Exemple 2 :

$$x^2(x + 3) = x^3 + 3x^2$$
$$x^2(x + 3) = x^3 + 3x^2$$
$$x^2(x + 3) = x^3 + 3x^2$$

Réduire une expression littérale

Ci n'est pas à réduire et réduire que des termes de même nature :

$$A = -3x^2 + 4x - 7 + 8 - 3x + 4x^2 - 6x^2 - 8$$
$$A = (-3 + 4 - 6)x^2 + (4 - 3 + 4)x + (-7 + 8 - 8)$$
$$A = -5x^2 + x - 7$$

On voit bien que les termes de même nature sont regroupés.

La double distributivité

$$(a + b)(c + d) = ac + ad + bc + bd$$

Exemple 1 :

$$A = (x + 2)(x + 3)$$
$$A = x^2 + 3x + 2x + 6$$
$$A = x^2 + 5x + 6$$
$$A' = (3x + 1)(2x + 4)$$
$$A' = 6x^2 + 12x + 2x + 4$$
$$A' = 6x^2 + 14x + 4$$
$$A'' = (4x^2 + 3x + 2)(x + 1)$$
$$A'' = 4x^3 + 3x^2 + 2x + 4x^2 + 3x + 2$$
$$A'' = 4x^3 + 7x^2 + 5x + 2$$

On voit bien que les termes de même nature sont regroupés.

La gestion des parenthèses

$$(2x - 3)(x + 4) + 5(3x - 2) - (4x - 1)(x + 2) = 2x^2 + 5x - 12 + 15x - 10 - 4x^2 - 6x - 2 = -2x^2 + 10x - 14$$

Exemple 1 :

$$F' = -(2x - 3) + (3x - 2) + 2(4x - 1) - 3(x - 1)$$
$$F' = -2x + 3 + 3x - 2 + 8x - 2 - 3x + 3$$
$$F' = 6$$

Exemple 2 :

$$M = (4 - x)(5x - 1) + 3x + 10(2x - 1)$$
$$M = (20x - 4 - 5x^2 + x) + 3x + 20x - 10$$
$$M = 20x - 4 - 5x^2 + x + 3x + 20x - 10$$
$$M = -5x^2 + 44x - 14$$

$x + 5 = 8$

$9 = x - 7$

$x + 5 - 5 = 8 - 5$

$9 + 7 = x - 7 + 7$

$x = 3$

$16 = x$

La solution de l'équation est 3.

La solution de l'équation est 16.

$4 - x = -1$

$7 = 11 + x$

$4 - x - 4 = -1 - 4$

$7 - 11 = 11 + x - 11$

$-x = -5$

$-4 = x$

$x = 5$

La solution de l'équation est -4.

La solution de l'équation est 5.

$x - 5 = -4$

$x + 7 = 4$

$x - 5 + 5 = -4 + 5$

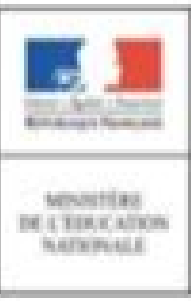
$x + 7 - 7 = 4 - 7$

$x = 1$

$x = -3$

La solution de l'équation est 1.

La solution de l'équation est -3.



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Épreuve de mathématiques du DNB

Série générale – sujet zéro

(2 heures – 100 points)

Exercice 1

Pour chacune des affirmations suivantes, dire si elle est vraie ou fausse en justifiant soigneusement la réponse.

1) Un sac contient 6 jetons rouges, 2 jetons jaunes et des jetons verts.
La probabilité de tirer un jeton vert vaut 0,5.
Affirmation : le sac contient 4 jetons verts.

2) En informatique, on utilise comme unités de mesure les multiples suivants de l'octet :
1Ko = 10³ octets, 1Mo = 10⁶ octets, 1 Go = 10⁹ octets, 1To = 10¹² octets,
où Ko est l'abréviation de kilooctet, Mo celle de mégaoctet, Go celle de gigaoctet, To celle de téraoctet.

On partage un disque dur de 1,5 To en dossiers de 60 Go chacun.
Affirmation : on obtient ainsi 25 dossiers.

3) Sur la figure codée ci-contre, les points *B*, *A* et *E* sont alignés.
Affirmation : l'angle $\widehat{EAC}$ mesure 137°.

4) Un verre de forme conique est complètement rempli.
On verse son contenu de sorte que la hauteur du liquide soit divisée
Affirmation : le volume du liquide est divisé par 6.

Ministère de l'Éducation nationale
Série Générale – Sujet zéro
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Graphique de l'évolution de la distance de freinage en fonction de la vitesse du véhicule

Vitesse <i>v</i> (km/h)	Distance de freinage <i>D_f</i> (m) - Pluie (rouge)	Distance de freinage <i>D_f</i> (m) - Soleil (bleue)
0	0	0
30	~10	~5
60	~40	~20
90	~90	~45
120	~160	~80
150	~250	~140

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