

ÉVALUATION DIAGNOSTIQUE
DES ÉLÈVES ALLOPHONES

Mathématiques

CYCLE 4 - FIN DE 3^E

Langue d'origine : anglais

SURNAME:

FIRST NAME:

Matériel nécessaire : crayon, gomme, règle graduée.

EXERCICE 1

“RIGHT” or “WRONG”? (Circle the right answer)

- | | | |
|--|---------|---------|
| a) 5 is a multiple of 10. | • RIGHT | • WRONG |
| b) 5 is a common divisor of 30 and of 45. | • RIGHT | • WRONG |
| c) The list of all the divisors of 10 is 2 and 5. | • RIGHT | • WRONG |
| d) The list of all the divisors of 60 is:
1; 2; 3; 4; 5; 6; 10; 12; 15; 20; 30; 60. | • RIGHT | • WRONG |

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EXERCICE 2

Circle the right answer.

$$[2a - 1] [a + 2] + [2a - 1] [3a + 1] =$$

- $[3a + 1]a$
 - $8a - 1$
 - $[2a - 1] [4a + 3]$
 - $[2a - 1] [4a^2 + 1]$
-

$$[3a + 1]^2 - [2a + 1] [3a + 1] =$$

- $2a - 1$
- $a [3a + 1]^2$
- $[3a + 1] [5a + 2]$
- $[3a + 1] a$

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EXERCICE 3

Circle the right answer.

$$[2a + 3]^2 =$$

- $25a^2$
 - $4a^2 + 12a + 9$
 - $2a^2 + 6a + 9$
 - $4a^2 + 9$
-

$$[5a + 3] [5a - 3] =$$

- $5a^2 - 9$
- $[5a]^2 + 9$
- $25a^2 - 9$
- $5^2a - 9$

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EXERCICE 4

Solve: $[4x + 3] [3x - 18] = 0$

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Answer:

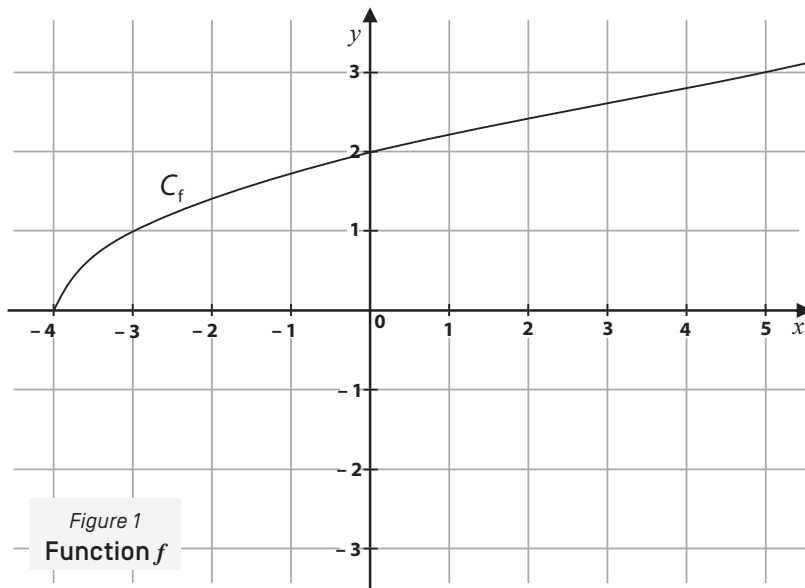
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EXERCICE 5

Complete:

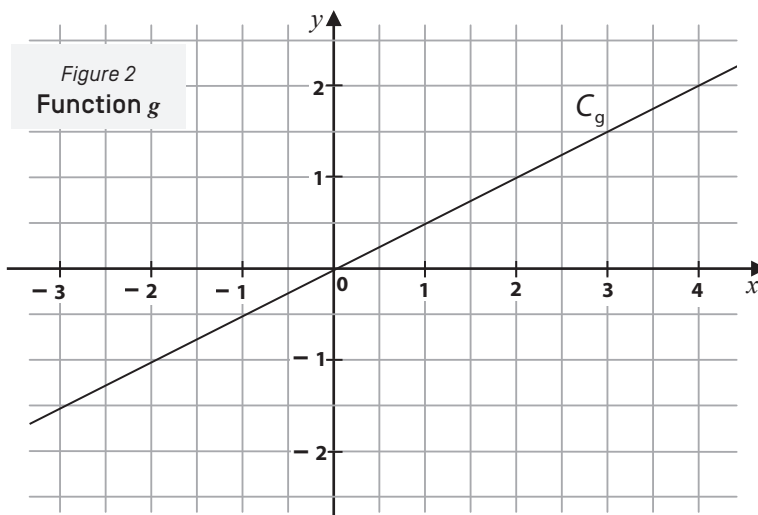
$f(5) = \dots\dots\dots$
 [or "the image of 5 under f
 is $\dots\dots\dots$ "]

$f(\dots\dots) = 1$
 [or "the image
 of $\dots\dots\dots$
 under f is 1"]



Complete:

x	-2	3
$g(x)$	1



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EXERCICE 6

f is the function that associates $f(x) = 4x$ to a number x

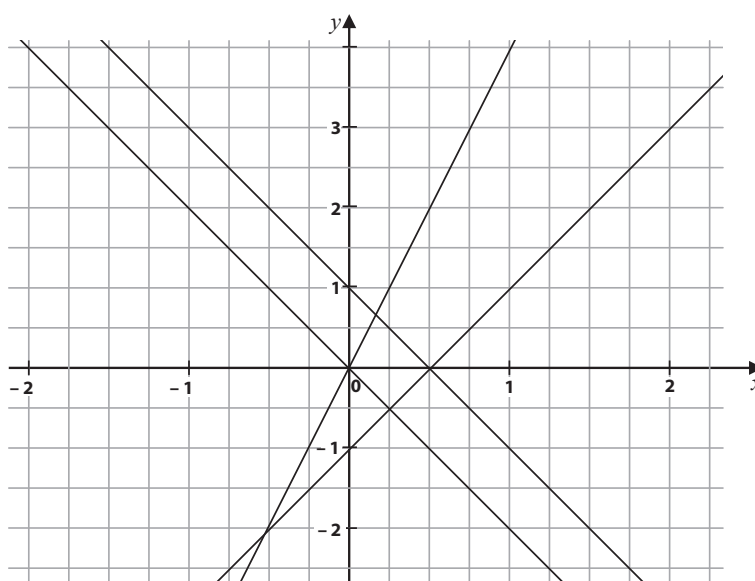
g is the function that associates $g(x) = -2x$ to a number x

h is the function that associates $h(x) = 2x - 1$ to a number x

Colour the graphic representation of f red.

Colour the graphic representation of g green.

Colour the graphic representation of h blue.



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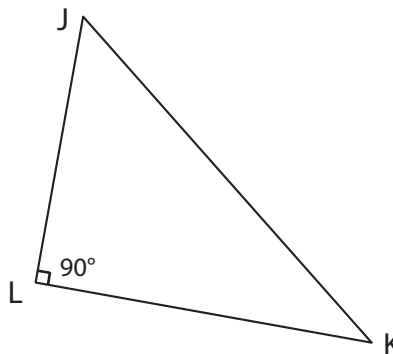
EXERCICE 7

Observe carefully this triangle:

$$[JL] \perp [LK]$$

$$\widehat{LJK} = 30^\circ$$

$$LK = 10 \text{ cm}$$



Circle the right answer:

$\sin \widehat{JKL} =$ <ul style="list-style-type: none"> • $\frac{LK}{JK}$ • $\frac{JK}{LK}$ • $\frac{LJ}{JK}$ • $\frac{LK}{LJ}$ 	$\cos \widehat{LJK} =$ <ul style="list-style-type: none"> • $\frac{LJ}{LK}$ • $\cos 30^\circ$ • 1,5 • 30° 	$JL =$ <ul style="list-style-type: none"> • $LK \times \tan [\widehat{LJK}]$ • $\frac{LK}{\tan [\widehat{LJK}]}$ • $\frac{JK}{LK}$ • 24°
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EXERCICE 8

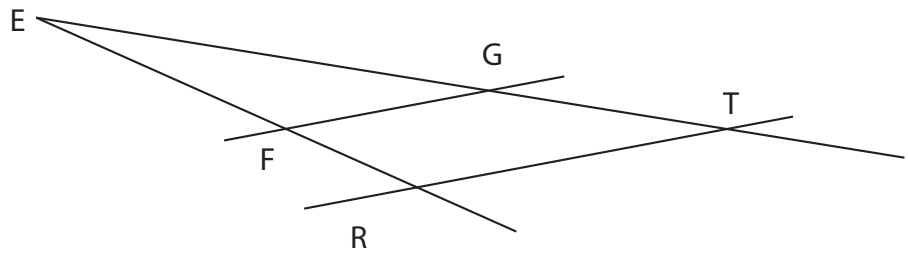
[RT]//[FG]

ET = 4,5 cm

FG = 2,2 cm

EF = 4 cm

ER = 6 cm



Complete:

$$\frac{\dots\dots}{ER} = \frac{FG}{RT} = \frac{\dots\dots}{\dots\dots}$$

Calculate EG:

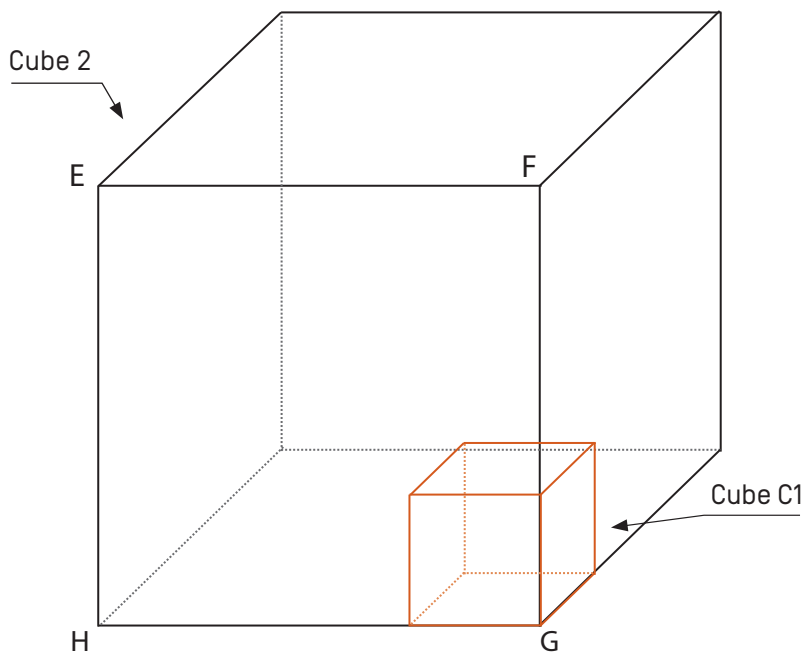
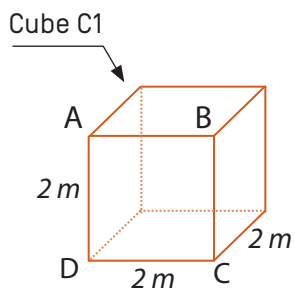
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EXERCICE 9



a) Complete:

Edge AB = 2 m

Area ABCD =

Volume C1 =

b) Complete:

Edge GH = $2 \times 3 = 6$ m

Area EFGH =

Volume C2 =

c) Complete:

[Area EFGH] = [Area ABCD] $\times a$

$a = \dots\dots\dots$

[Volume C2] = [Volume C1] $\times b$

$b = \dots\dots\dots$

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