

## EXEMPLES DE GRAPHIQUES AVEC TikZ

### Exercice 1 :

Avec Pstricks : version Philippe année 2007

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

Voici la formule de la distributivité :  $k \times (a + b) = k \times a + k \times b$  vue en 5<sup>e</sup>.

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

Voici la formule de la distributivité :  $(a + b) \times (c + d) = a \times c + a \times d + b \times c + b \times d$  vue en 4<sup>e</sup>.

Avec Tikz : version Dominique

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

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

Au milieu d'un texte :

Voici la formule de la simple distributivité :  $a \times (b + c) = a \times b + a \times c$  (vue en 5<sup>ème</sup>).

Voici la formule de la double distributivité :  $(a + b) \times (c + d) = a \times c + a \times d + b \times c + b \times d$  (vue en 4<sup>ème</sup>).

Avec Tikz : version améliorée

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

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

Au milieu d'un texte :

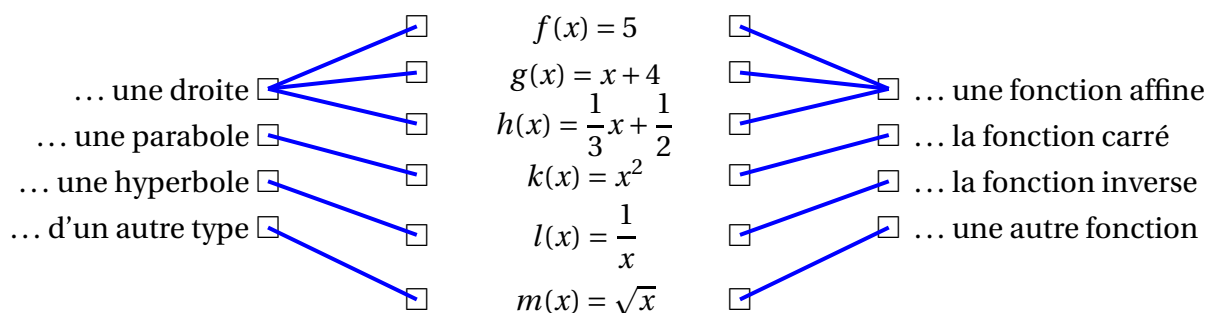
Voici la formule de la simple distributivité :  $a \times (b + c) = a \times b + a \times c$  (vue en 5<sup>ème</sup>).

Voici la formule de la double distributivité :  $(a + b) \times (c + d) = a \times c + a \times d + b \times c + b \times d$  (vue en 4<sup>ème</sup>).

Son graphique est...

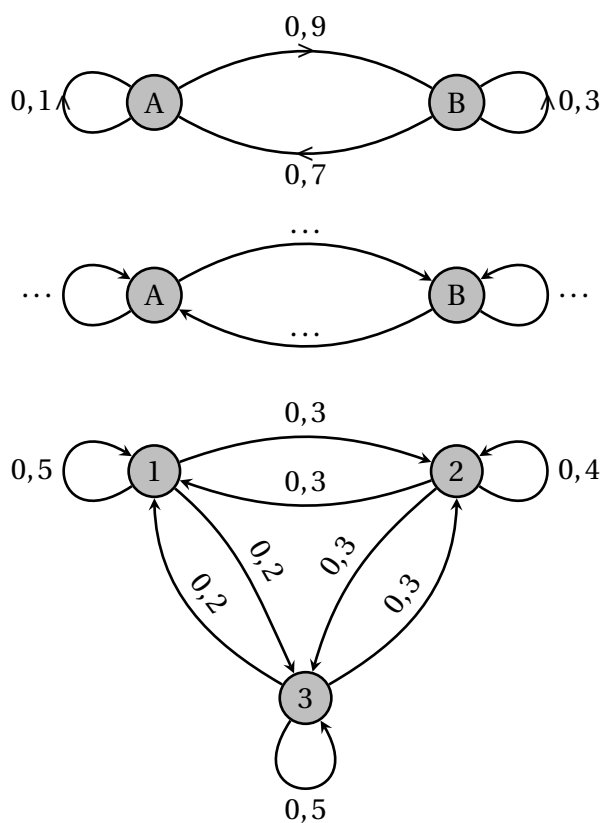
Expressions des fonctions :

C'est...

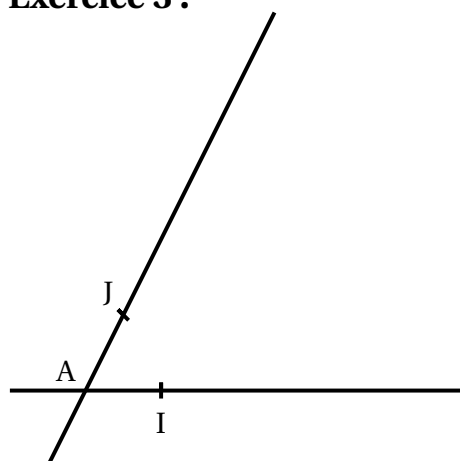


## Exercice 2 :

## Graphes probabilistes



## Exercice 3 :



### Exercice 4 :

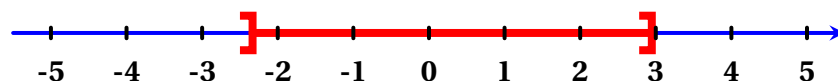
|                    |           |     |     |           |     |
|--------------------|-----------|-----|-----|-----------|-----|
| $x$                | $-\infty$ | $0$ | $2$ | $+\infty$ |     |
| Signe de $3x$      | $-$       | $0$ | $+$ |           |     |
| Signe de $x-2$     |           | $-$ | $0$ | $+$       |     |
| Signe de $3x(x-2)$ | $+$       | $0$ | $-$ | $0$       | $+$ |

|                    |           |                |                  |           |     |
|--------------------|-----------|----------------|------------------|-----------|-----|
| $x$                | $-\infty$ | $0$            | $2$              | $+\infty$ |     |
| Signe de $3x$      | $-$       | $0$            | $+$              |           |     |
| Signe de $x-2$     |           | $-$            | $0$              | $+$       |     |
| Signe de $3x(x-2)$ | $+$       | $0$            | $-$              | $0$       | $+$ |
| Variations de $f$  | $+\infty$ | $-\frac{1}{2}$ | $\frac{17}{128}$ | $-\infty$ |     |

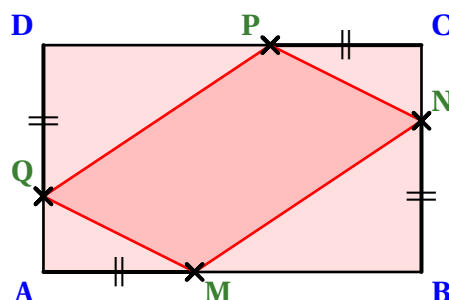
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### Exercice 5 :

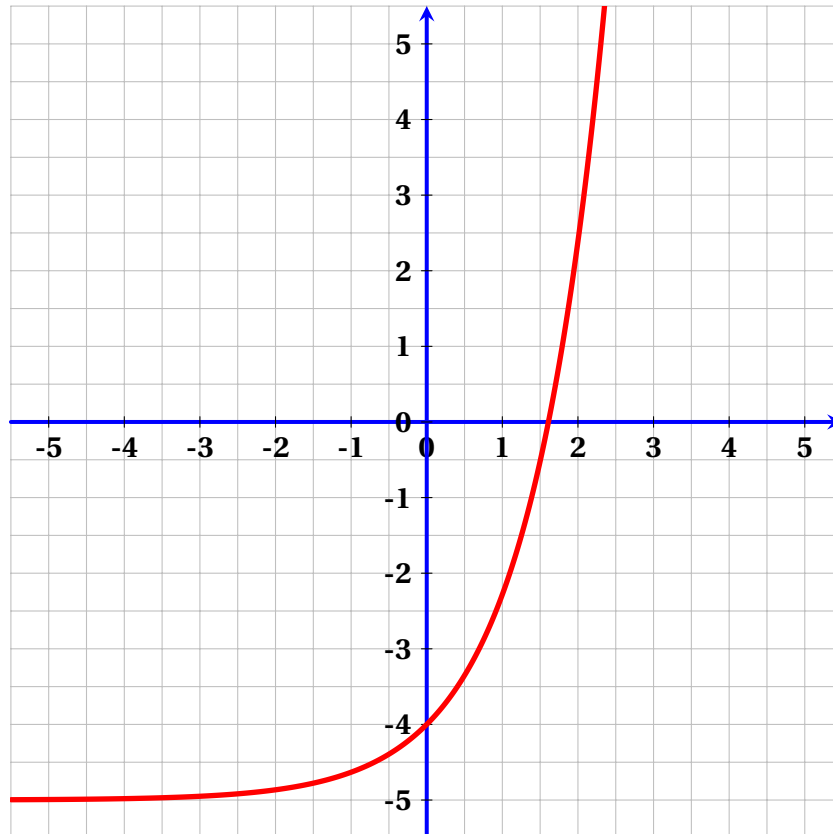


### Exercice 6 :

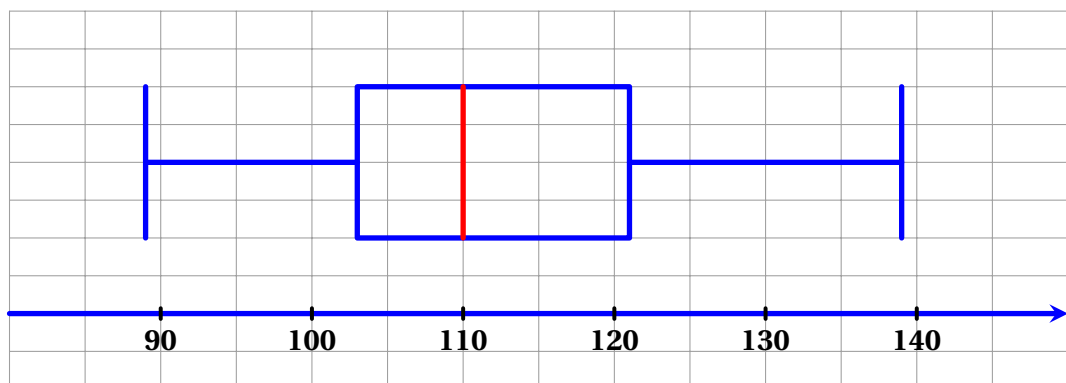
Segments définis avec les lettres



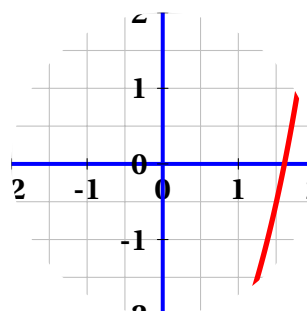
**Exercice 7 :**



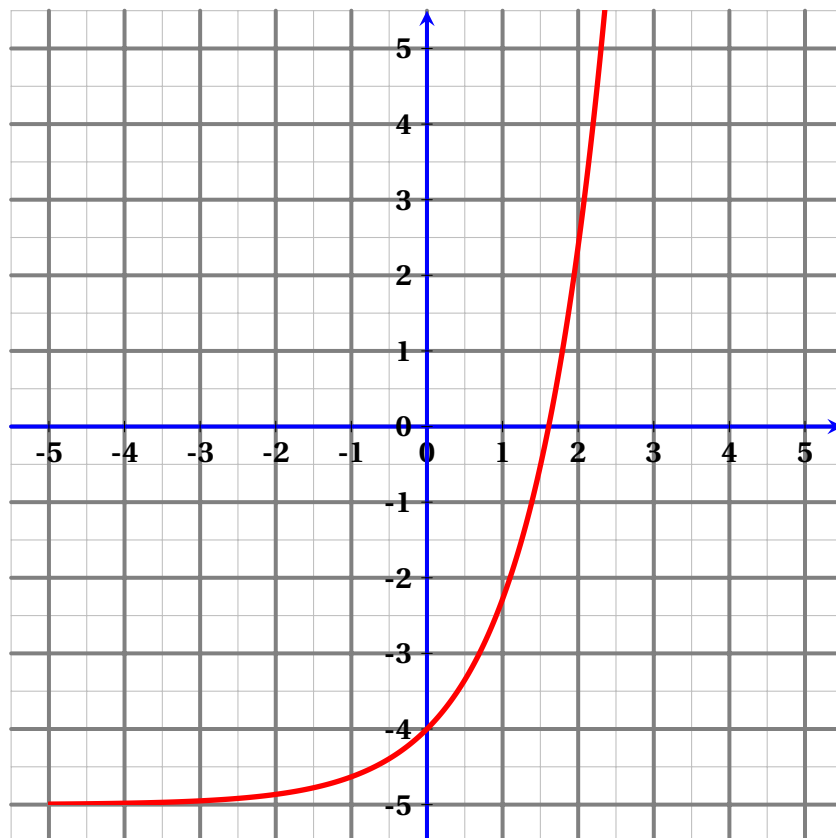
**Exercice 8 :**



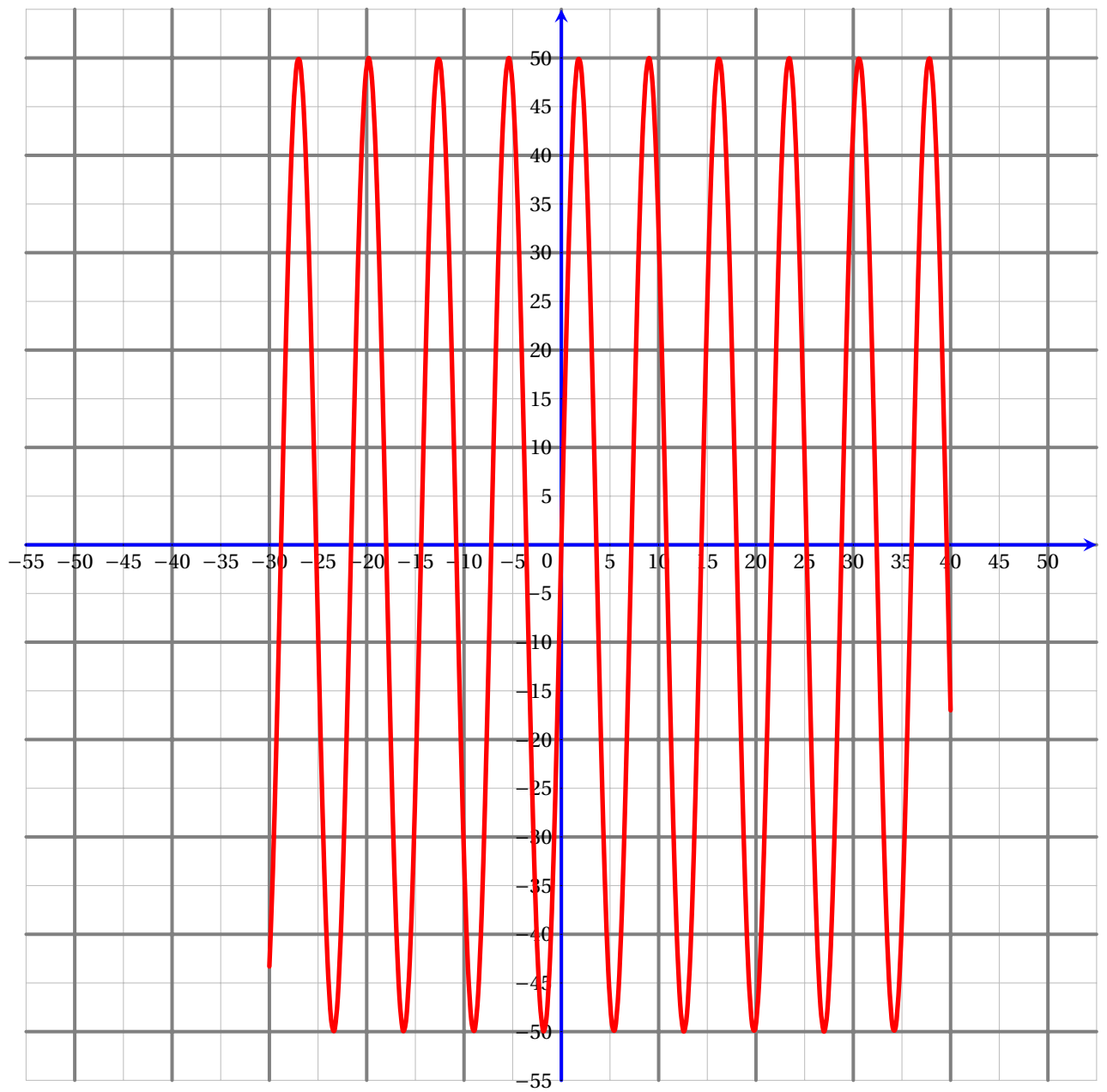
**Exercice 9 :**



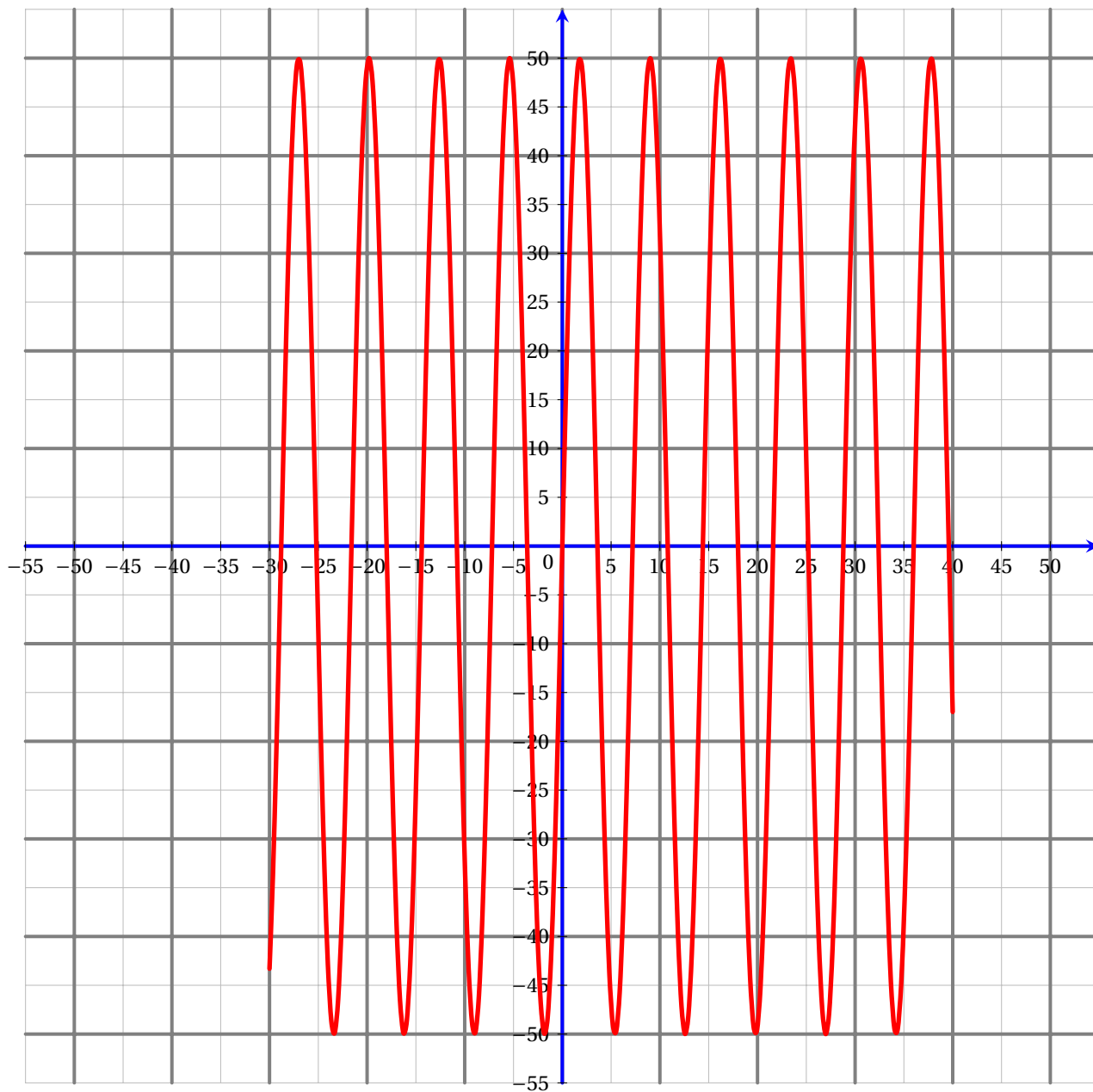
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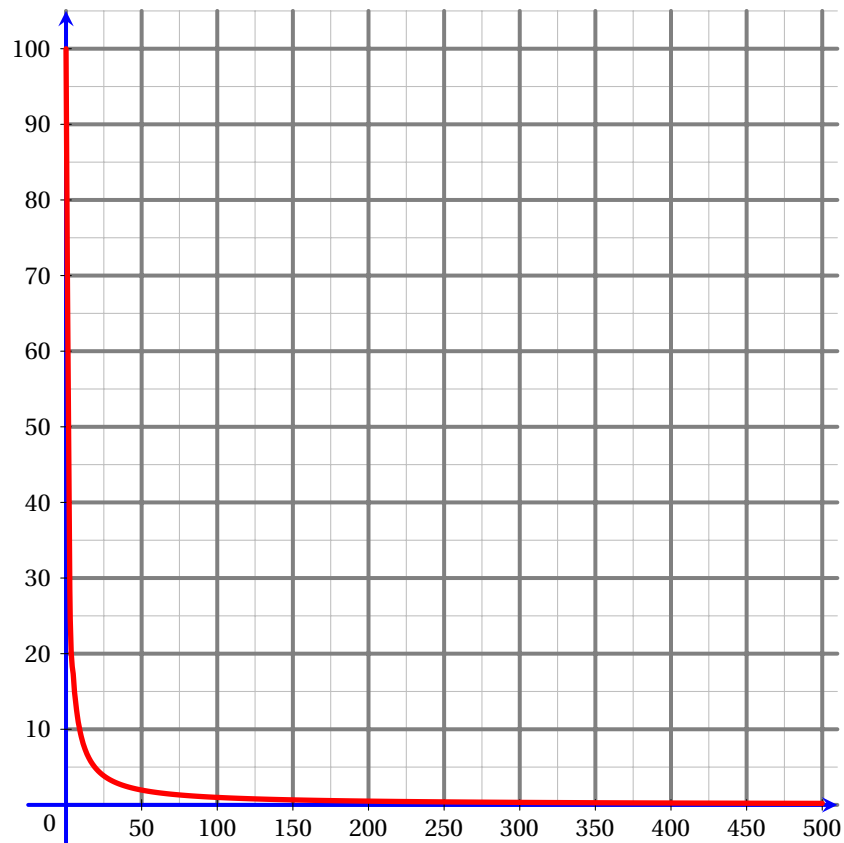
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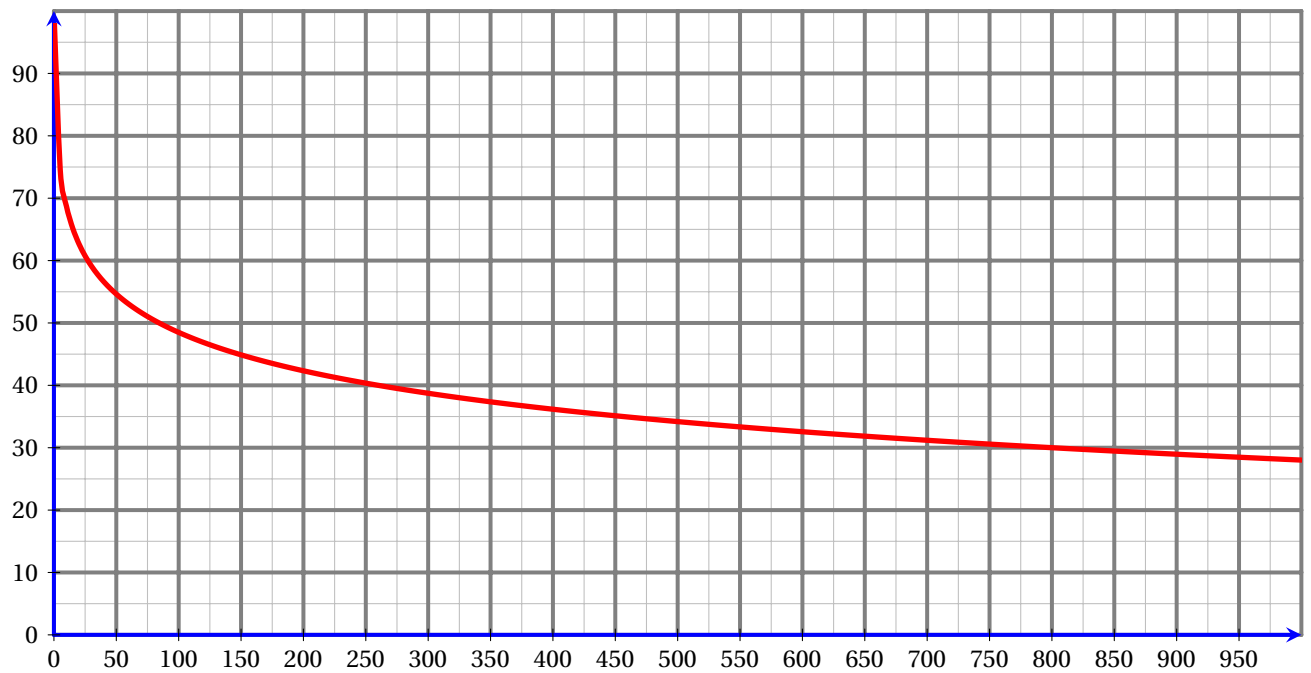
## Exercice 12 :



### Exercice 13 :

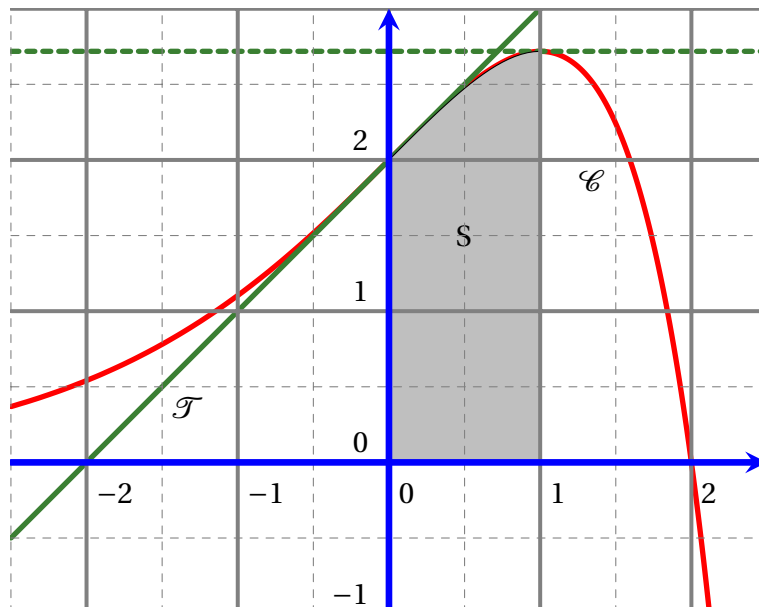


**Exercice 14 :**



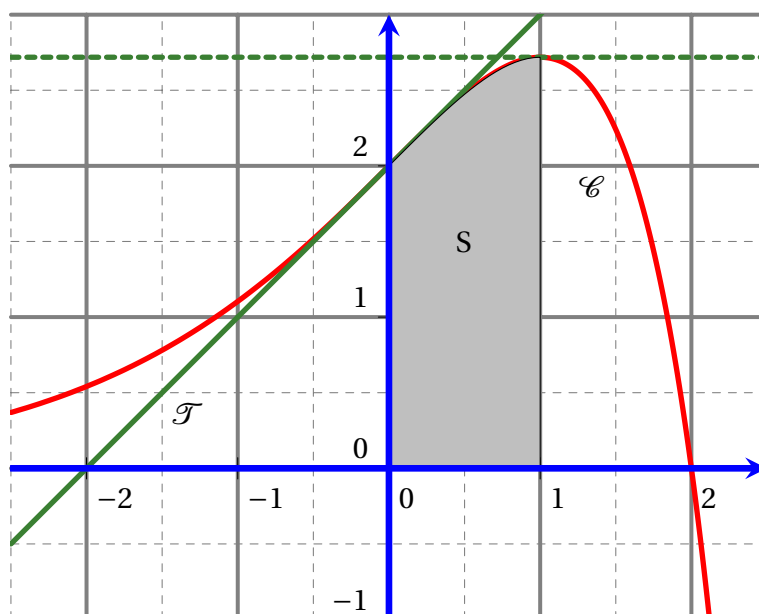
**Exercice 15 :**





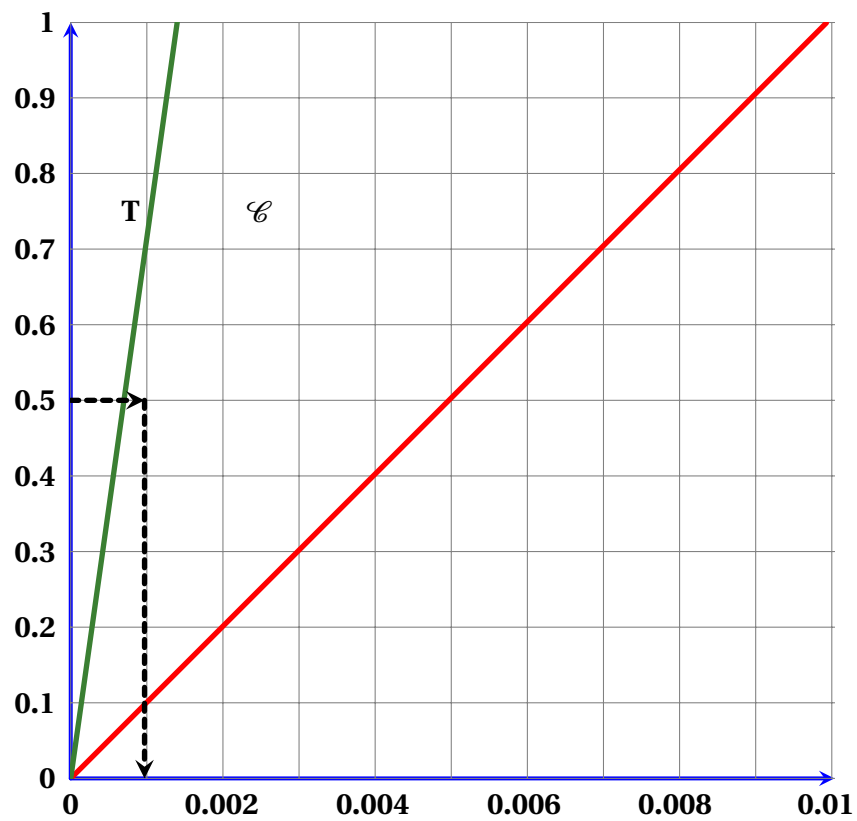
### Exercice 16 :

L'ordre des instructions est important pour le rendu souhaité!!

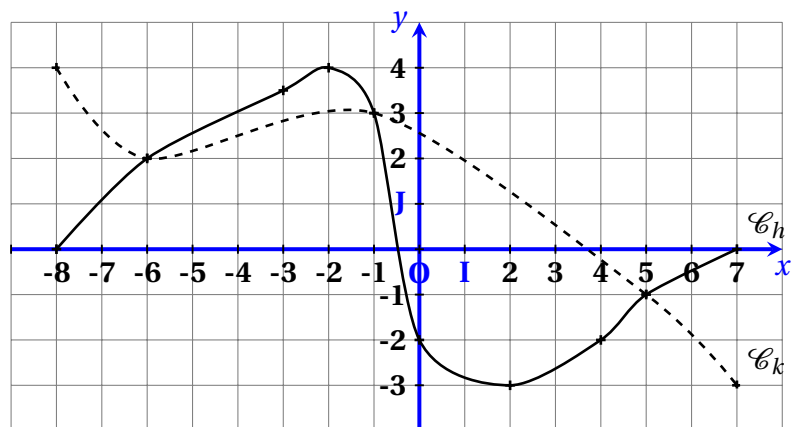


### Exercice 17 :

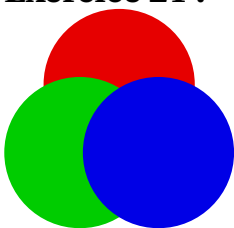




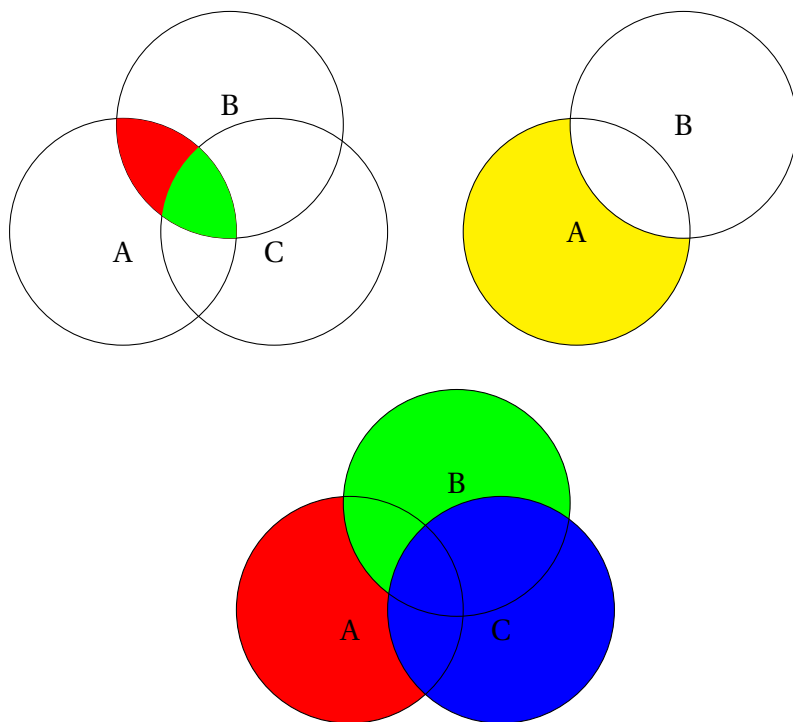
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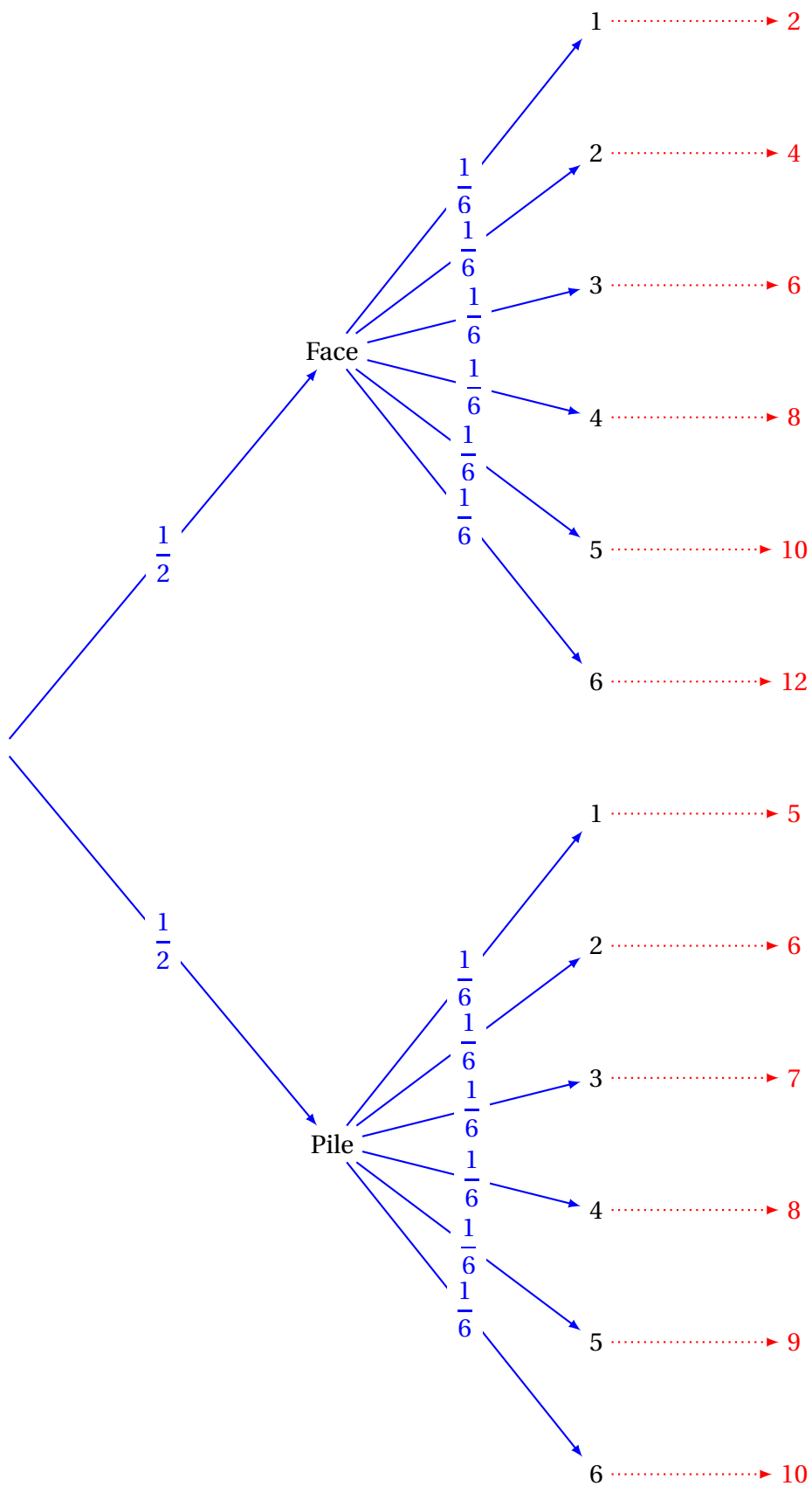


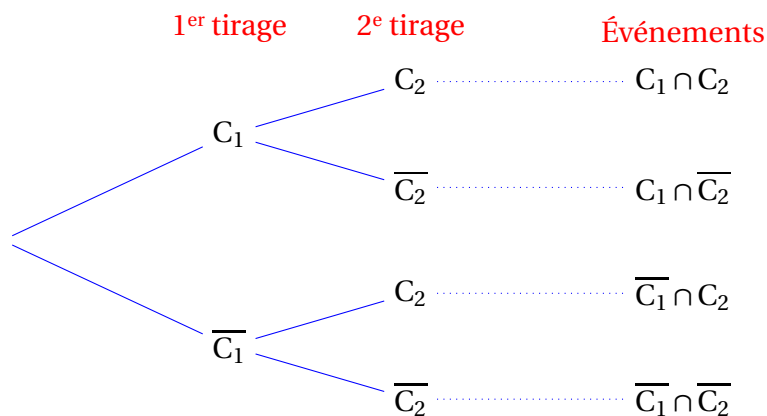
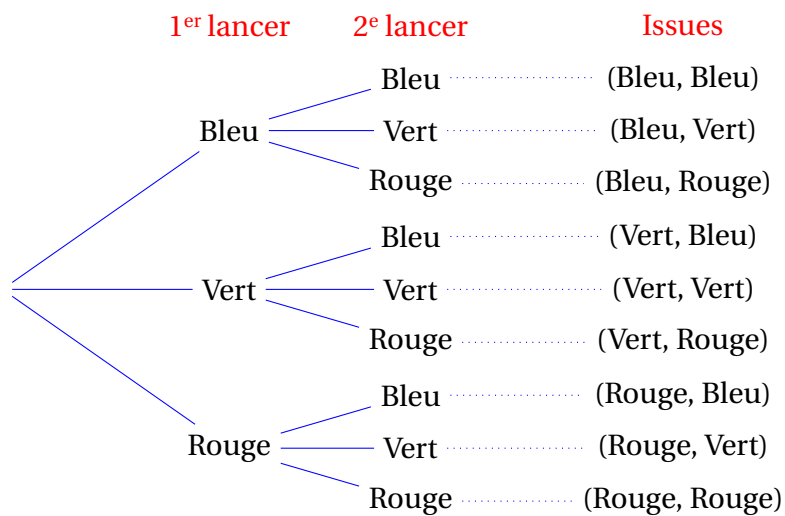
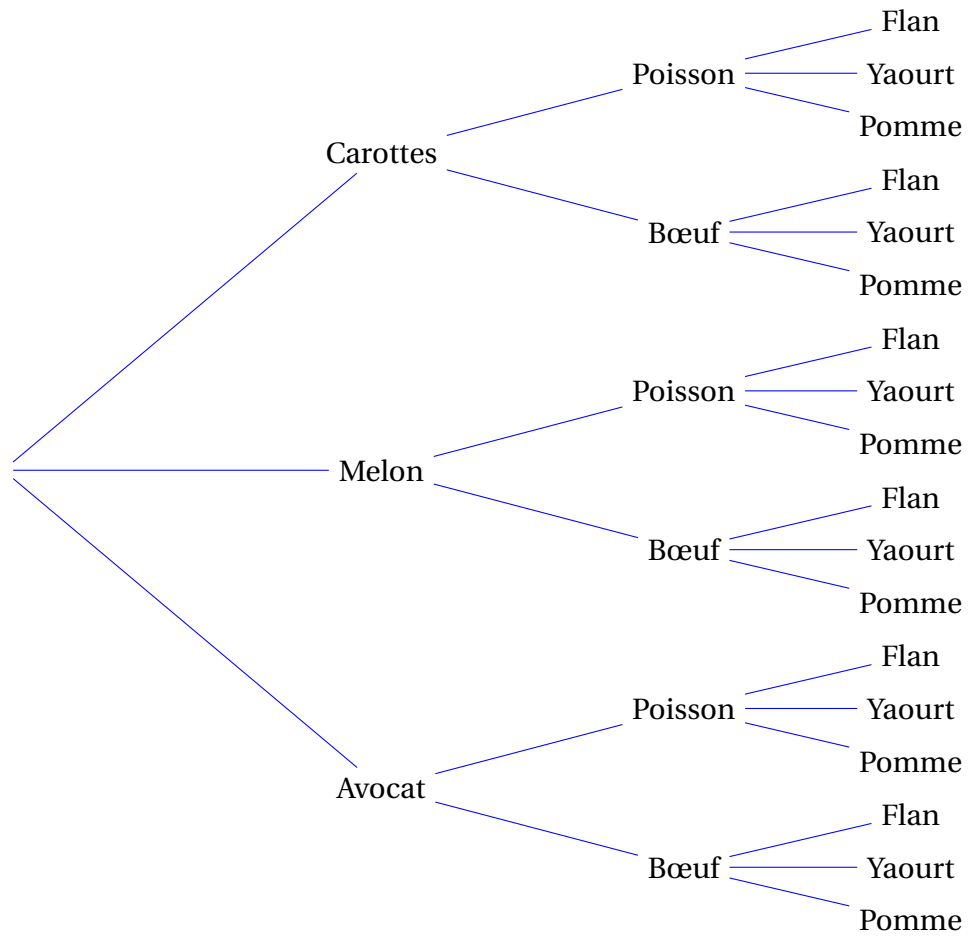
**Exercice 21 :**

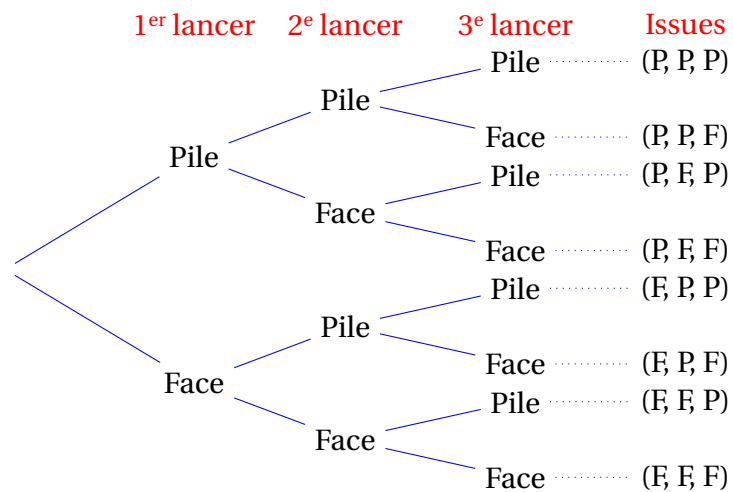
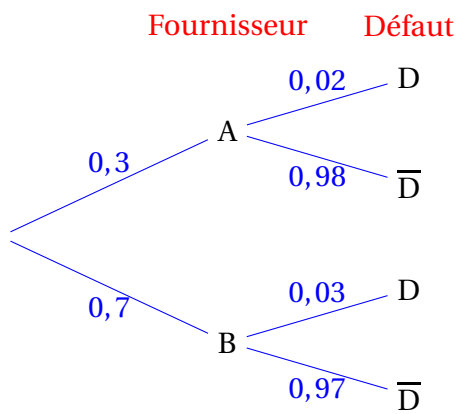
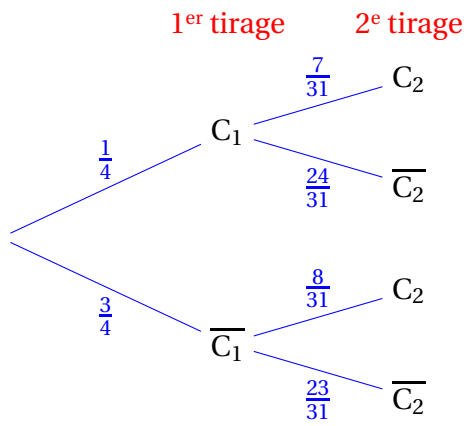


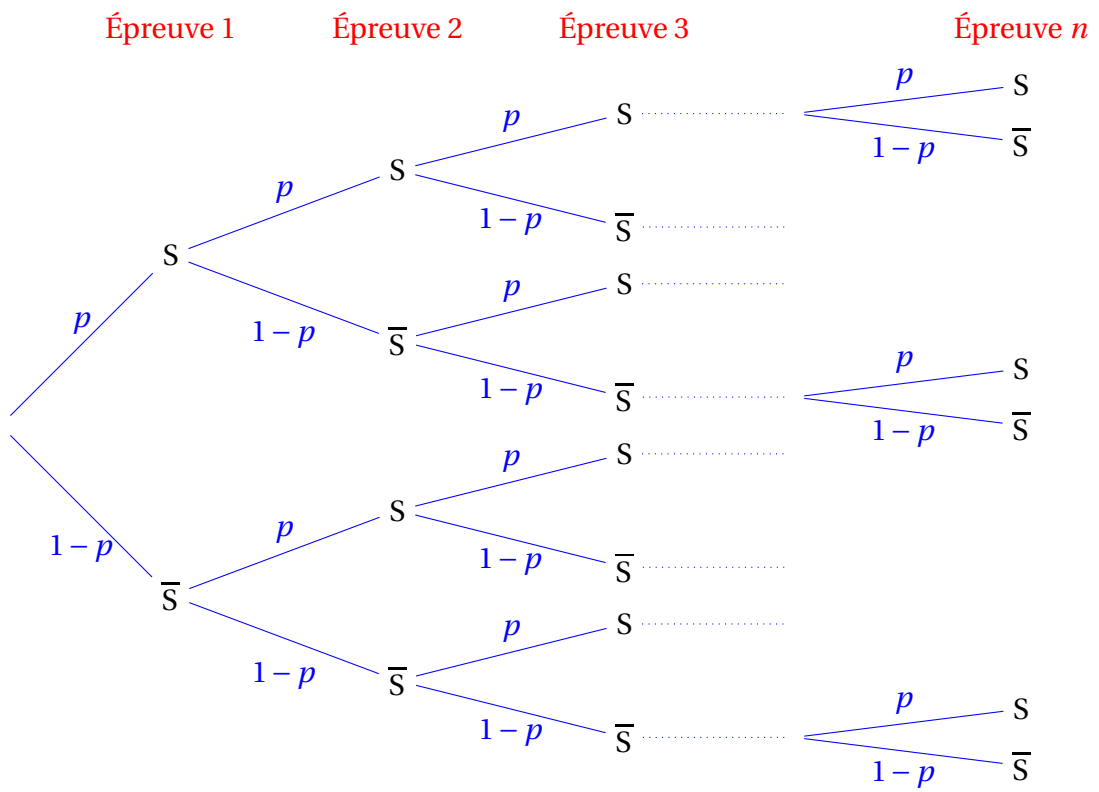
**Exercice 22 :**













**Exercice 24 :**

**REMARQUES SUR LE DEVOIR MAISON N°2**

**Exercice 25 :**

**REMARQUES SUR LE DEVOIR MAISON N°2**

**Exercice 26 :**

**REMARQUES SUR LE DEVOIR MAISON N°2**

**Exercice 27 :**

**REMARQUES SUR LE  
DEVOIR MAISON N°2**

**Exercice 28 :**



**Exercice 29 :**



**Exercice 30 :**



Exercice 31 :



Exercice 32 :



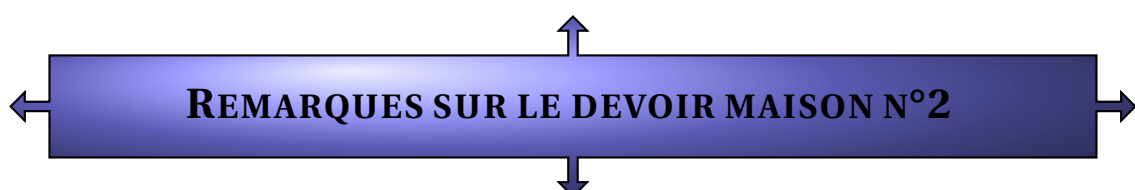
Exercice 33 :



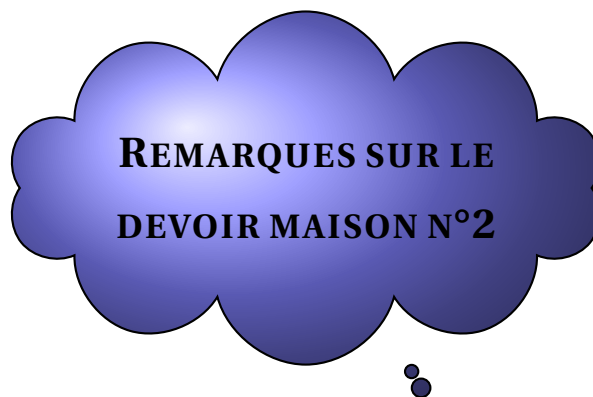
Exercice 34 :



Exercice 35 :



**Exercice 36 :**

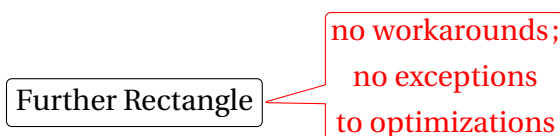


**Exercice 37 :**



**Exercice 38 :**

Decorations can draw text that follows an arbitrary



**Exercice 39 :**

