



## Test

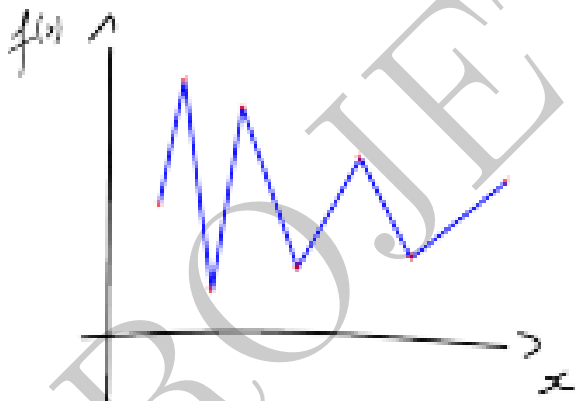
Nom et prénom :

.....

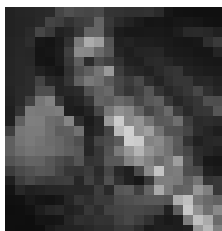
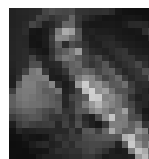
Illustration of `amc2moodle` capabilities. All these questions can be converted *automatically* to `moodle` with the same layout.

### MULTIPLE CHOICE TESTS USING AMC LATEX FORMAT

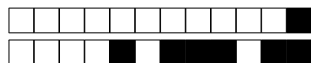
**Question 1** On souhaite faire passer *exactement*, par  $N$  points donnés, un polynôme de degré **strictement** égal à  $N - 1$ . Pour trouver les coefficients on doit résoudre un *problème*



- ☐ de moindre carré
- ☐ de Thelonius Sphere Monk



- ☐ d'interpolation



**Question 2 ♣** Quel fruit possède un noyau?

- ☐ La pomme
 ☐ La tomate
 ☐ le Kiwi  
☐ Aucune de ces réponses n'est correcte.

**Question 3** Test for itemize html rendering,

- first item
- Second item blablabla


test for enumerate html rendering,

1. The first item  $x^2$  with math
2. The second **item** with bold

- ☐ 1. The first item  $x^2$   
 2. The second **item**

- ☐ 1 bullet list and 1 ordered list  
 Remarks: tags in item are ignored.

**Question 4 ♣** Quels sont les opérations qui donnent un chiffre présent dans le tableau?

12	2	$2^3$
Deux		4

- ☐  $6 \times 6$   
☐ Avec une équation

$$\int_0^2 x dx$$


- ☐ Ou en C using `alltt` package

```
int s=-2;
for (int i=0;i<4; i++){
  s=i*i+s;
}
```

- ☐ Avec une équation matricielle

$$\det \begin{pmatrix} 1 & 2 \\ -1 & 10 \end{pmatrix} = \begin{vmatrix} 1 & 2 \\ -1 & 10 \end{vmatrix} \quad (1)$$

- ☐  $|-10 - 2|$  (math inline and newcommand)

- ☐ la réponse en image 

- ☐ Aucune de ces réponses n'est correcte.



**Question 5** Among the following persons, which one has ever been a President of the French Republic?

- ☐ Alain Prost    ☐ with an image     ☐ Marcel Proust    ☐ René Coty

**Question 6 ♣** Among the following cities, which ones are French prefectures?

- ☐ Sainte-Menehould  
☐ Avignon  
☐ Poitiers  
☐ *Aucune de ces réponses n'est correcte.*

**Question 7** Here is a test for `mhchem-LATEX` package. This package is not yet supported by LaTeXML, thus the rendering is delegated to `mathjax`. To use it, you need to add `mhchem` in the `mathjax` moodle plugin (ask to admin, see details in README file).

A complicated chemical equation  $\text{Hg}^{2+} \xrightarrow{\text{I}^-} \text{HgI}_2 \xrightarrow{\text{I}^-} [\text{Hg}^{\text{II}}\text{I}_4]^{2-}$ , the same written in math mode :  $\text{Hg}^{2+} \xrightarrow{\text{I}^-} \text{HgI}_2 \xrightarrow{\text{I}^-} [\text{Hg}^{\text{II}}\text{I}_4]^{2-}$ , combine with other math operator  $K = \text{Hg}^{2+} \xrightarrow{\text{I}^-} \text{HgI}_2 \xrightarrow{\text{I}^-} [\text{Hg}^{\text{II}}\text{I}_4]^{2-}$  and finally placed in the equation environment

$$K = \text{Hg}^{2+} \xrightarrow{\text{I}^-} \text{HgI}_2 \xrightarrow{\text{I}^-} [\text{Hg}^{\text{II}}\text{I}_4]^{2-}$$

- ☐ a simpler one  $\text{CO}_2 + \text{C} \longrightarrow 2 \text{CO}$ .  
☐ Wrong Choice!

**Question 8** Combien de fois le programme suivant affiche-t-il "x" ?

```
for (int i = 4; i < 24; ++i)
  for (int j = i + 2; j - 1 > 0; --j)
    puts("x");
```

- |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | <input type="checkbox"/> 7 | <input type="checkbox"/> 8 | <input type="checkbox"/> 9 |
| <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | <input type="checkbox"/> 7 | <input type="checkbox"/> 8 | <input type="checkbox"/> 9 |
| <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | <input type="checkbox"/> 7 | <input type="checkbox"/> 8 | <input type="checkbox"/> 9 |

**Question 9** Explain in few words the aim of this course.

☐ OK ☐ F

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+1/4/57+

**Question 10** Provide a description of a problem that can be common to several questions. It is useful to define notation, pictures



equations  $\int_0^1 x dx = 0 \dots$  Since, it is not a *real* question, the **choices** environment is not provided. In this case, the question will be converted by **amc2moodle** into moodle **description** question type. To use it in AMC, do not forget to use **QuestionIndicative** to tell AMC not to count points for this question (with a 0-point scoring).

**Question 11** Among the following shape, where is the circle

