



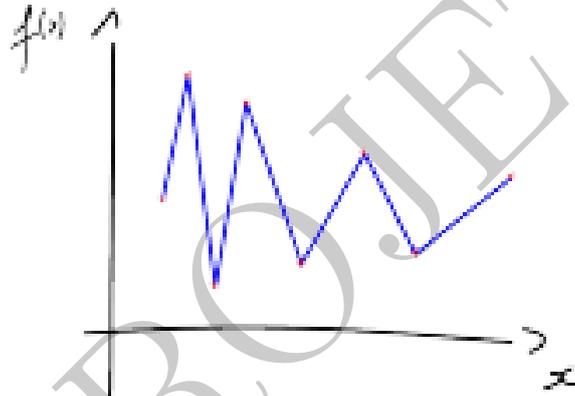
**Test**

Nom et prénom :  
.....

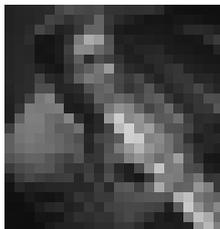
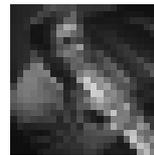
Illustration of `amc2moodle` capabilities. All these questions can be converted *automatically* to moodle with the same layout.

**MULTIPLE CHOICE TESTS USING AMC LATEX FORMAT**

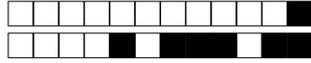
**Question 1** On souhaite faire passer *exactement*, par  $N$  points donnés, un polynôme de degré **strictement** égal à  $N - 1$ . Pour trouver les coefficients on doit résoudre un *problème*



- 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** Sometimes amc users use *sectioning* to organize the quiz. This is also possible to do it with amc2moodle. In moodle, this is rendered in html using `h1` tags. The starred version are also supported.

## 1 Section title

Ou blab *ckl* ekjf blab ckl ekjf blab ckl ekjf

## Stared Section title

line jhkd blab ckl ekjf blab ckl **ekjf** blab ckl ekjf blab ckl ekjf

### 1.1 This is a subsection title

blab ckl ekjf subsection content blab ckl ekjf

### This is a star subsection title

ekjf blab ckl ekjf blab ckl ekjf blab ckl ekjf blab ckl  $x^2$

#### 1.1.1 A subsection

Another subsection



**Question 5 ♣** Quels sont les opérations qui donnent un chiffre présent dans le tableau?

12	2	2 <sup>3</sup>
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

$$\det \begin{pmatrix} 1 & 2 \\ -1 & 10 \end{pmatrix} = \begin{vmatrix} 1 & 2 \\ -1 & 10 \end{vmatrix} \tag{1}$$

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

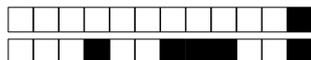
- la réponse en image
- Aucune de ces réponses n'est correcte.

**Question 6** 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 7 ♣** Among the following cities, which ones are French prefectures?

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



**Question 8** Here is a test for mhchem-L<sup>A</sup>T<sub>E</sub>X 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



a simpler one  $\text{CO}_2 + \text{C} \longrightarrow 2 \text{CO}$ .

Wrong Choice!

**Question 9** 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");
```

0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

**Question 10** Explain in few words the aim of this course.

OK  F

.....

**Question 11** Provide a description of a problem that can be common to several questions. It is useful to define notation, pictures



equations  $\int_0^1 x dx = 0.5$ . ... 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 12**

What is the **area** of rectangle of height 2.183840093288496178 and width 1.000070437323334825 ?

We recall that  $\pi = 3.141592653589793238$ .

Check for random labels : 0.346558480706812393

Check nested expression :  $2.933884413848519720 =? 2.933884413848519720$

Check for power and trigo :  $\sin(0.5)^2 + \cos(0.5)^2 = 0.99999999999999985 =? 1$

2.183993917139258694

3.183910530611831003

**Question 13 ♣** Compute the eigenvalues of the following matrix

$$\begin{pmatrix} x & y \\ y & z \end{pmatrix}, \tag{2}$$

where  $x=3.131068949648676880$ ,  $y=1.875836745312361392$  and  $z=1.188178464857944500$ .

-4.319247414506621380

0.047167943447435243

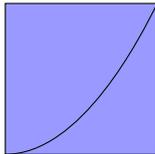
17.849877416146659003

4.272079471059186137

4.319247414506621380

Aucune de ces réponses n'est correcte.

**Question 14** Among the following shape, where is the circle



$\Delta$

