+1/1/60+

Test

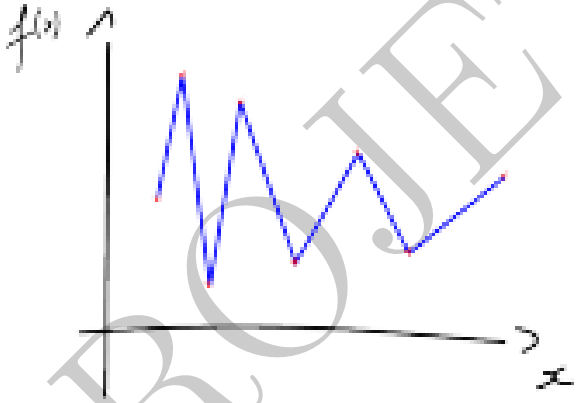
Nom et prénom :

.....

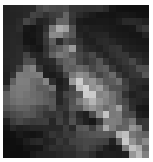
Illustration of `amc2moodle` capabilities. All these questions can be converted *automatically* to `moodle` with the same layout.

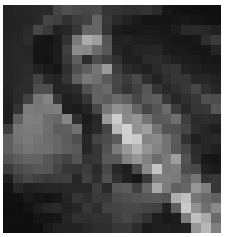
Multiple choice tests using AMC Latex Format

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

Pour votre examen, imprimez de préférence les documents compilés à l'aide de auto-multiple-choice.

+1/2/59+

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

☐ 6×6
☐ Avec une équation

$$\int_0^2 x \mathrm{d}x$$

☐ 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 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`-LaTeXpackage. 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 $\mathrm{Hg^{2+}} \xrightarrow{\mathrm{I^-}} \mathrm{HgI_2} \xrightarrow{\mathrm{I^-}} [\mathrm{Hg^{II}I_4}]^{2-}$, the same written in math mode : $\mathrm{Hg^{2+}} \xrightarrow{\mathrm{I^-}} \mathrm{HgI_2} \xrightarrow{\mathrm{I^-}} [\mathrm{Hg^{II}I_4}]^{2-}$, combine with other math operator $K = \mathrm{Hg^{2+}} \xrightarrow{\mathrm{I^-}} \mathrm{HgI_2} \xrightarrow{\mathrm{I^-}} [\mathrm{Hg^{II}I_4}]^{2-}$ and finally placed in the equation environment

$$K = \mathrm{Hg^{2+}} \xrightarrow{\mathrm{I^-}} \mathrm{HgI_2} \xrightarrow{\mathrm{I^-}} [\mathrm{Hg^{II}I_4}]^{2-}$$

- ☐ a simpler one $\mathrm{CO_2 + C \longrightarrow 2\,CO}$.
- ☐ 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");
```

☐**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 9 Explain in few words the aim of this course. ☐**OK** ☐**F**

.....

.....

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

equations $\int_0^1 x\mathrm{d}x = 0.\ldots$ 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