**Solution de la série n° :02**

**Exercice 01 :**

01/

Les points d'interpolation :

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | |  | 0 | 1/6 | ½ | |  | 0 | 1/6 | 1 | |  |  |  |
| xi |  |  |  |
|  |  |  |  |

2/ la valeur exacte de l'erreur :

=

**Exercice 02 :**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2 | 2.5 | 4 |
|  | 0.5 | 0.4 | 0.25 |

=

= (0.5-

- La valeur de f(3)

- La majoration de l'erreur (Méthode de Lagrange)

**L'erreur exacte** :

\*

L'erreur exacte :

**Exercice 03 :**

Le polynôme d'interpolation de Newton :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 0  1  2  4 | 1  3  2  5 | 2  1  3 | 2 |  |

4 points d'interple polyn de degre3

**Exercice 04 :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 0  1  2  4 | 1  3  9  81 | 2  6  36 | 2  10 | 2 |