1. **Табулирование функций – индивидуальное задание**

Вычислить значений функции *уi* для значений аргумента *хi* на основании данных таблицы. В таблице представлены данные, собранные двумя способами (Задача А и Задача В):

а) аргумент изменяется с постоянным шагом **x** от начального **xH** до конечного **xK** значения.

b) значения аргумента произвольные.

Вывести на дисплей для обоих случаев горизонтальную и вертикальную таблицы с массивами данных X, Y .

Создать пустую структуру **table** и включить в нее массивы X и Y. Вывести таблицу с такими же наименованиями столбцов.

##### Таблица

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **п/п** | **Функция**  **yi = f(xi)** | **Задача А** | | | | | | **Задача В** | | | | |
| ***a*** | ***b*** | **xH** | **xK** | **x** | | **x1** | **x2** | **x3** | **x4** | **x5** |
| **1** |  | **-** | **2.5** | **1.28** | **3.28** | **0.4** | | **1.1** | **2.4** | **3.6** | **1.7** | **3.9** |
| **2** |  | **1.35** | **0.98** | **1.14** | **4.24** | **0.62** | | **0.35** | **1.28** | **3.51** | **5.21** | **4.16** |
| **3** |  | **2.0** | **0.95** | **1.25** | **2.75** | **0.3** | | **2.2** | **3.78** | **4.51** | **6.58** | **1.2** |
| **4** |  | **-** | **-** | **1.25** | **3.25** | **0.4** | | **1.84** | **2.71** | **3.81** | **4.56** | **5.62** |
| **5** |  | **- 2.5** | **3.4** | **3.5** | **6.5** | **0.6** | | **2.89** | **3.54** | **5.21** | **6.28** | **3.48** |
| **6** |  | **-** | **-** | **0.2** | **2.2** | **0.4** | | **0.1** | **0.9** | **1.2** | **1.5** | **2.3** |
| **7** |  | **0.4** | **0.8** | **3.2** | **6.2** | **0.6** | **4.48** | | **3.56** | **2.78** | **5.28** | **3.21** |
| **8** |  | **1.2** | **0.48** | **0.7** | **2.2** | **0.3** | **0.25** | | **0.36** | **0.56** | **0.94** | **1.28** |
| **№**  **п/п** | **Функция**  **yi = f(xi)** | **Задача А** | | | | | | **Задача В** | | | | |
| **a** | **в** | **xH** | **xK** | **x** | **x1** | | **x2** | **x3** | **x4** | **x5** |
| **9** |  | **1.1** | **0.09** | **1.2** | **2.2** | **0.2** | **1.21** | | **1.76** | **2.53** | **3.48** | **4.52** |
| **10** |  | **0.05** | **0.06** | **0.2** | **0.95** | **0.15** | **0.15** | | **0.26** | **0.37** | **0.48** | **0.56** |
| **11** |  | **2.0** | **3.0** | **0.11** | **0.36** | **0.05** | **0.08** | | **0.26** | **0.35** | **0.41** | **0.53** |
| **12** |  | **1.6** | **-** | **1.2** | **3.7** | **0.5** | **1.28** | | **1.36** | **2.47** | **3.68** | **4.56** |
| **13** |  | **4.1** | **2.7** | **1.2** | **5.2** | **0.8** | **1.9** | | **2.15** | **2.34** | **2.73** | **3.16** |
| **14** |  | **7.2** | **4.2** | **1.81** | **5.31** | **0.7** | **2.4** | | **2.8** | **3.9** | **4.7** | **3.16** |
| **15** |  | **-** | **-** | **0.26** | **0.66** | **0.08** | **0.1** | | **0.35** | **0.4** | **0.55** | **0.6** |
| **16** |  | **2.0** | **1.1** | **0.08** | **1.08** | **0.2** | **0.1** | | **0.3** | **0.4** | **0.45** | **0.65** |
| **17** |  | **0.1** | **0.5** | **0.15** | **1.37** | **0.25** | **0.2** | | **0.3** | **0.44** | **0.6** | **0.56** |
| **18** |  | **2.5** | **4.6** | **1.1** | **3.6** | **0.5** | **1.2** | | **1.28** | **1.36** | **1.46** | **2.35** |
| **19** |  | **2.0** | **-** | **1.2** | **4.2** | **0.6** | **1.16** | | **1.32** | **1.47** | **1.65** | **1.93** |
| **20** |  | **0.8** | **0.4** | **1.23** | **7.23** | **1.2** | **1.88** | | **2.26** | **3.84** | **4.55** | **-6.21** |
| **21** |  | **-** | **-** | **0.11** | **0.36** | **0.05** | **0.2** | | **0.3** | **0.38** | **0.43** | **0.57** |
| **22** |  | **2.25** | **-** | **1.2** | **2.7** | **0.3** | **1.31** | | **1.39** | **1.44** | **1.56** | **1.92** |
| **23** |  | **4.1** | **2.7** | **1.5** | **3.5** | **0.4** | **1.9** | | **2.15** | **2.34** | **2.74** | **3.16** |
| **24** |  | **7.2** | **1.3** | **1.56** | **4.71** | **0.63** | **2.4** | | **2.8** | **3.9** | **4.7** | **3.16** |
| **25** |  | **-** | **-** | **0.22** | **0.92** | **0.14** | **0.1** | | **0.35** | **0.4** | **0.55** | **0.6** |
| **№**  **п/п** | **Функция**  **yi = f(xi)** | **Задача А** | | | | | | **Задача В** | | | | |
| **a** | **в** | **xH** | **xK** | **x** | **x1** | | **x2** | **x3** | **x4** | **x5** |
| **26** |  | **2.0** | **4.1** | **0.77** | **1.77** | **0.2** | **1.24** | | **1.38** | **2.38** | **3.21** | **0.68** |
| **27** |  | **0.1** | **0.5** | **0.33** | **1.23** | **0.18** | **0.5** | | **0.36** | **0.40** | **0.62** | **0.78** |
| **28** |  | **2.5** | **4.6** | **1.15** | **3.05** | **0.38** | **1.2** | | **1.36** | **1.57** | **1.93** | **2.25** |
| **29** |  | **2.0** | **-** | **1.08** | **1.88** | **0.16** | **1.16** | | **1.35** | **1.48** | **1.52** | **1.96** |
| **30** |  | **0.8** | **0.4** | **1.42** | **3.62** | **0.44** | **1.6** | | **1.81** | **2.24** | **2.65** | **3.38** |