Воронин Иван P3131

Домашнее задание №8

Вариант 45

A = 2,1 B = 0,08

**Деление в формате *Ф2*:**

*А* = 2,1 = (10.00011001)2 = (0.10000110)2·22

*В* = 0,08 = (0.00010100011)2 = (0.10100011)2·2-3

*XC* = *XA – XB + d*

*d* + P*C* = **P*A* + *d* – PB –d** *+ d*

**P*C***

*XC* = 2 –(-3) +128 = 133

P*C* = 5

|  |  |  |  |
| --- | --- | --- | --- |
| **N шага** | **Действие** | **Делимое** | **Частное** |
| **0** | *МА*  [-*МB*]доп  *R*0 | **0 1 0 0 0 0 1 1 0**  **1 0 1 0 1 1 1 0 1**  **1 1 1 1 0 0 0 1 1** | **0 0 0 0 0 0 0 0**  **0 0 0 0 0 0 0 0** |
| **1** | ←*R*0  *МB* пр  *R*1 | **1 1 1 0 0 0 1 1 0**  **0 1 0 1 0 0 0 1 1**  **0 0 1 1 0 1 0 0 1** | **0 0 0 0 0 0 0 0**  **0 0 0 0 0 0 1 1** |
| **2** | ←*R*1  [-*МB*]доп  *R*2 | **0 1 1 0 1 0 0 1 0**  **1 0 1 0 1 1 1 0 1**  **0 0 0 1 0 1 1 1 1** | **0 0 0 0 0 0 1 0**  **0 0 0 0 0 0 1 1** |
| **3** | ←*R*2  [-*МB*]доп  *R*3 | **0 0 1 0 1 1 1 1 0**  **1 0 1 0 1 1 1 0 1**  **1 1 0 1 1 1 0 1 1** | **0 0 0 0 0 1 1 0**  **0 0 0 0 0 1 1 0** |
| **4** | ←R3  Впр  *R*4 | **1 0 1 1 1 0 1 1 0**  **0 1 0 1 0 0 0 1 1**  **1 0 0 0 1 1 0 0 1** | **0 0 0 0 1 1 0 0**  **0 0 0 0 1 1 0 0** |
| **5** | ←*R*4  *МB* пр  *R*5 | **0 0 0 1 1 0 0 1 0**  **0 1 0 1 0 0 0 1 1**  **0 1 1 0 1 0 1 0 1** | **0 0 0 1 1 0 0 0**  **0 0 0 1 1 0 0 1** |
| **6** | ←*R*5  [-*МB*]доп  *R*6 | **1 1 0 1 0 1 0 1 0**  **1 0 1 0 1 1 1 0 1**  **1 0 0 0 0 0 1 1 1** | **0 0 1 1 0 0 1 0**  **0 0 1 1 0 0 1 0** |
| **7** | ←*R*6  *МB* пр  *R*7 | **0 0 0 0 0 1 1 1 0**  **0 1 0 1 0 0 0 1 1**  **0 1 0 1 1 0 0 0 1** | **0 1 1 0 0 1 0 0**  **0 1 1 0 0 1 0 1** |
| **8** | ←*R7*  [-*МB*]доп  *R8* | **1 0 1 1 0 0 0 1 0**  **1 0 1 0 1 1 1 0 1**  **0 1 0 1 1 1 1 1 1** | **1 1 0 0 1 0 1 0**  **1 1 0 0 1 0 1 1** |

*С\** = (0.11001011)2·25 = (11001,011)2 = 25,375.

СТ = 26,25 (точное значение).

Δ*С* = *С*Т - *С*\* = 26,25 – 25,25 = 0,875,

δ*С* = · 100% = . 100% = 3,3%.

**Деление в формате Ф1.**

*А* = 2,1 = (10.00011001)2 = (0.219)16·161 = (0.22)16·161

*В* = 0,08 = (0.00010100011)2 = (0.146)2·160 = (0.14)2·160

XC = 1 – 0 + 64 = 65

Pc = 1

|  |  |  |  |
| --- | --- | --- | --- |
| **N шага** | **Действие** | **Делимое** | **Частное** |
| **0** | *МА*  [-*МB*]доп  *R0*  *МА* →4  [-*МB*]доп  *R0* | **0 0 0 1 0 0 0 1 0**  **1 1 1 1 0 1 1 0 0**  **0 0 0 0 0 1 1 1 0**  **0 0 0 0 0 0 0 1 0**  **1 1 1 1 0 1 1 0 0**  **1 1 1 1 0 1 1 1 0** | **0 0 0 0 0 0 0 0**  **R0>0**  **0 0 0 0 0 0 0 0**  **0 0 1 0 0 0 0 0** |
| **1** | ←*R0*  *МB* пр  *R1* | **1 1 1 0 1 1 1 0 0**  **0 0 0 0 1 0 1 0 0**  **1 1 1 1 1 0 0 0 0** | **0 1 0 0 0 0 0 0**  **0 1 0 0 0 0 0 0** |
| **2** | ←*R1*  *МB* пр  *R2* | **1 1 1 1 0 0 0 0 0**  **0 0 0 0 1 0 1 0 0**  **1 1 1 1 1 0 1 0 0** | **1 0 0 0 0 0 0 0**  **1 0 0 0 0 0 0 0** |
| **3** | ←R2  *МB* пр  R3 | **1 1 1 1 0 1 0 0 1**  **0 0 0 0 1 0 1 0 0**  **1 1 1 1 1 1 1 0 1** | **0 0 0 0 0 0 0 0**  **0 0 0 0 0 0 0 0** |
| **4** | ←*R3*  *МB* пр  *R4* | **1 1 1 1 1 1 0 1 0**  **0 0 0 0 1 0 1 0 0**  **0 0 0 0 0 1 1 1 0** | **0 0 0 0 0 0 0 0**  **0 0 0 0 0 0 0 1** |
| **5** | ←*R4*  [-*МB*]доп  *R5* | **0 0 0 0 1 1 1 0 0**  **1 1 1 1 0 1 1 0 0**  **0 0 0 0 0 1 0 0 0** | **0 0 0 0 0 0 1 0**  **0 0 0 0 0 0 1 1** |
| **6** | ←*R*5  [-*МB*]доп  *R6* | **0 0 0 0 1 0 0 0 0**  **1 1 1 1 0 1 1 0 0**  **1 1 1 1 1 1 1 0 0** | **0 0 0 0 0 1 1 0**  **0 0 0 0 0 1 1 0** |
| **7** | ←*R6*  *МB* пр  *R7* | **1 1 1 1 1 1 0 0 0**  **0 0 0 0 1 0 1 0 0**  **0 0 0 0 0 1 1 0 0** | **0 0 0 0 1 1 0 0**  **0 0 0 0 1 1 0 1** |
| **8** | ←*R7*  [-*МB*]доп  *R8* | **0 0 0 0 1 1 0 0 0**  **1 1 1 1 0 1 1 0 0**  **0 0 0 0 0 0 1 0 0** | **0 0 0 1 1 0 1 0**  **0 0 0 1 1 0 1 1** |

*С\** = (0,1B)16·162 = (1B)16 = 27.

СТ = 26,25 (точное значение).

Δ*С* = *С*Т - *С*\* = 26,25 – 27 = 0,75,

δ*С* = · 100% = . 100% = 2,8%.