Вариант :102

Имя : хатиб ватан

Деление в формате *Ф2*.

*А* = 7,3 = (111.01001100)2 = (0.11101001100)2·23

*В* = 0,021= (0.0000010101100)2 = (0.10101100)2·2-5

*XC* = *XA – XB + d*

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

**P*C***

*XC* = 3 –(-5) +128 = 136

*B=010101100*

*Bdop=101010100*

P*C* = 8

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

*С\** = (0.10101101)2·29 = (101011010)2 = 346.

СТ = 347 (точное значение).

Δ*С* = *С*Т - *С*\* = 347 – 346= 1,

δ*С* = · 100% = . 100% = 0,28%.

Погрешность вызвана неточным представлением операндов.

Деление в формате *Ф1*.

MA=001110100

MB=001010110

-MB=110101010

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

*С\** = (1,5)16 163 = (150)16 = 336

Δ*С* = *С*Т - *С*\* = 347 – 336 = 11,

δ*С* = · 100% = . 100% = 3,17%.

Погрешность вызвана неточным представлением операндов и она больше, чем при делении в формате *Ф2*.