Домашняя работа №5; Казаев Максим Группа Р3106; Вариант 11.

A = 2566 [+A]пр =0.000 1010 0000 0110 [-A]доп =1.111 0101 1111 1010

B = 27 [+B]пр = 0.001 1011 [-B]доп = 1.110 0101

1)Оба операнда положительны(**A** >0, **B**>0):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |  |
| 0 | [А]пр | 00001010 | 00000110 |  |
| 1 | [<-А]пр  [-B]доп  R1 | +00010100  11100101  11111001 | 0000110|0 |  |
| 2 | <-R1  [+B]пр  R2 | +11110010  00011011  00001101 | 11100101  000110|01 |  |
| 3 | <-R2  [-B]доп  R3 | + 00011010  11100101  11111111 | 00110|010  00110|010 |  |
| 4 | <-R3  [+B]пр  R4 | + 11111110  00011011  00011001 | 0110|0100  0110|0101 |  |
| 5 | <-R4  [-B]доп  R5 | + 00110010  11100101  00010111 | 110|01010  110|01011 |  |
| 6 | <-R5  [-B]доп  R6 | + 00101111  11100101  00010100 | 10|010110  10|010111 |  |
| 7 | <-R6  [-B]доп  R7 | +00101001  11100101  00001110 | 0|0101110  0|0101111 |  |
| 8 | <-R7  [-B]доп  R8 | + 00011100  11100101  00000001 | |01011110  |01011111 |  |

[C]пр =(0.1011111) = (95)2

[R]пр = ( 0.0000001) = (1)2

2566 = 27 \* 95 + 1

2)Делимое положительное (***A*** >0), делитель отрицательный (***B*** < 0):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |  |
| 0 | [А]пр | 00001010 | 00000110 |  |
| 1 | [-B]доп  R1’  <-R1’  [-B]доп  R1 | +11111111  00001001  00010011  11100101  11111000 | 11100101  11101011  1101011|1 |  |
| 2 | <-R1  [+B]пр  R2 | +11110010  00011011  00001101 | 000110|00  000110|01 |  |
| 3 | <-R2  [-B]доп  R3 | + 00011010  11100101  11111111 | 00110|010  00110|010 |  |
| 4 | <-R3  [+B]пр  R4 | + 11111110  00011011  00011001 | 0110|0100  0110|0101 |  |
| 5 | <-R4  [-B]доп  R5 | + 00110010  11100101  00010111 | 110|01010  110|01011 |  |
| 6 | <-R5  [-B]доп  R6 | + 00101111  11100101  00010100 | 10|010110  10|010111 |  |
| 7 | <-R6  [-B]доп  R7 | +00101001  11100101  00001110 | 0|0101110  0|0101111 |  |
| 8 | <-R7  [-B]доп  R8 | + 00011100  11100101  00000001 | |01011110  |01011111 |  |