Вар 29

1) $50822_{10} \longrightarrow X_9$

50822	9
50814	5646
8	5643
	3

627	9
621	69
6	63
	6

9
7

$50822_{10} = 76638_9$

$21856679 \longrightarrow X_{10}$

$8 \cdot 9^4 + 5 \cdot 9^3 + 6 \cdot 9^2 + 6 \cdot 9 + 7 = 52488 + 3645 + 486 + 54 + 7 =$

$= 56680$

$85667_9 \longrightarrow 56680_{10}$

3) $10101_5 \longrightarrow X_{15}$

$5^4 + 5^2 + 1 = 651$

$10101_5 \longrightarrow 651_{10}$

$651_{10} \longrightarrow 2D6_{15}$

651	15
645	43
6	30
	13

15
2

4) $68,82_{10} \rightarrow X_2$

$68,82 = 68 + 0,82$

$64+4 = 2^6 + 2^2 = 1000100_2$

$0,82 = 0,11010_2$

1,64
1,28
0,56
1,12
0,24

$68,82_{10} \rightarrow 1000100,11010_2$

5) $25,23_{16} \rightarrow X_2$

$25,23_{16} = 0010\,0101\,,0010\,0011_2 \approx 100101,001_2$

6) $63,56_8 \rightarrow X_2$

$63,56_8 = 110\,011\,,101\,110_2 = 110011,10111_2$

7) $0,110101_2 \rightarrow X_{16}$

$11010100_2 = D4_{16}$

$0,110101_2 = 0,D4_{16}$

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8) $0,101111_2 \rightarrow X_{10}$

$2^{-1} + 2^{-3} + 2^{-4} + 2^{-5} + 2^{-6} = 0,5 + 0,125 + 0,0625 + 0,03125 + 0,015625 = 0,734375_{10}$

Ombem: $0,73438_{10}$

9) $B7,93_{16} \rightarrow X_{10}$

$11 \cdot 16 + 7 + \frac{9}{16} + \frac{3}{256} = 183,57421875$

Ombem: 183,57422

10) $94_{10} \rightarrow X_4$

$94 = 89 + 5$

Ombem: 1000001000_4

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11) $\{1\}\{2\}\{3\}21_{7c} \rightarrow X_{10}$

$-1\cdot 7^4 - 2\cdot 7^3 - 3\cdot 7^2 + 2\cdot 7 + 1 = -3219_{10}$

12) $10010010_2 \rightarrow X_{10}$

$34 + 8 + 2 = 44_{10}$

13) $100101.001001_5 \rightarrow X_{10}$

5 4 3 2 1 0 -1 -2 -3 -4 -5 -6

$z = \frac{1+\sqrt{5}}{2}$

```
In [2]:
1  z = (1 + 5**0.5) / 2
2
3  x_10 = z**5 + z**2 + z**0 + (z**-3) + (z**-6)
4  print(x_10)

15.000000000000002
```

Ombeni: 15