Ответы: Красюков А. 0362

1	ЕСПИ
2	~~ш~~: 00; ш: 0110; щ: 0111; ф: 010; у: 10; х: 110; ц: 111
3	249
4	(2; 2; 2)

4) 2, 3, 4, 1, 2 25

3) 10000100

код 11111000 = 249

Отв: 249

2) ~~96(Y)~~ 96(Y), 42(ф), 65(Х), 93(Ц), 90(Ч)
23(Ш), 29(Щ)

~~96(Х), 52(ШЩ), 42(ф),~~
96(Y), ~~42(ф)~~ 93(Ц), 90(Ч), 65(Х), 42(ф), 29(Щ), 23(Ш)
96(Y), 93(Ц), 90(Ч), 65(Х), 52(ЩШ), 42(ф)
96(Y), 94(ЩШф), 93(Ц), 90(Ч), 65(Х)
155(ЧХ), 96(Y), 94(ЩШф), 93(Ц)
187(ЩШфЦ), 155(ЧХ), 96(Y)
251(ЧХY), 187(ЩШфЦ)

1(ЧХY), 0(ЩШфЦ)
ЧYХ - 1111010
0(ЩШфЦ), 10(Y), 11(ЧХ)
00(Ц), 01(ЩШф), 10(Y), 11(ЧХ)
00(Ц), 01(ЩШф), 10(Y), 110(Х), 111(Ч)
00(Ц), 011(ЩШ), 010(ф), 10(Y), 110(Х), 111(Ч)
00(Ц), 0110(Ш), 0111(Щ), 010(ф), 10(Y), 110(Х), 111(Ч)

4) 2, 3, 4, 1, 2 — 25

$$q_0 + q_1 x + q_2 x^2 + q_3 x^3 = (x-d)y$$

$$\begin{cases} q_0 = -d \cdot 2 \\ q_0 + q_1 + q_2 + q_3 = (1-d)\cdot 3 \\ q_0 + 2q_1 + 4q_2 + 8q_3 = (2-d)\cdot 4 \\ q_0 - 2q_1 + 4q_2 - 8q_3 = (-2-d)\cdot 1 \\ q_0 - q_1 + q_2 - q_3 = (-1-d)\cdot 2 \end{cases}$$

$q_0 = \frac{5}{4} = 0$

$q_0 = 3$

$q_2 = 0$

$q_3 = \frac{3}{4} = 2$

$2q_0 + 2q_2 = 3 - 3d - 2 - 2d$ $\quad 2q_0 + 8q_2 = \frac{6}{2} - \frac{5}{4}d \quad -4d + 8q_2 = 6 - 5d$

$2q_2 = 1 - d$ $\quad q_2 = \frac{6-d}{8}$

$2q_1 + 2q_3 = 5\frac{1}{2}d$

$-q_0 + 6q_2 - 6q_3 = -2 - d + 4 + 1d = 2 + 3d$

$2d + \frac{6-d}{8} - 6q_3 = 2 + 3d$

$16d + 6 + d - 48q_3 = 16 + 24d$

$-48q_3 = 10 + 7d$

$q_3 = \frac{10+7d}{48}$

$Q(x) = 3 + 2x^3 \qquad D(x) = 4 + x$

$$\begin{array}{r|l} 2x^3 + 3 & x+4 \\ \hline 2x^3 + 3x^2 & 2x^2 + 2x + 2 \\ \hline -2x^2 + 3 & \\ 2x^2 + 3x & \\ \hline -2x + 3 & \\ 2x + 3 & \\ \hline 0 & \end{array}$$

Ответ: 2; 2; 2