

2) 34(к), 88(л), 66(е), 55(й), 48(и), 46(ж), 31(з)

77(жз), 94(к), 88(л), 66(е), 55(й), 48(и)

103(йи), 77(жз), 94(к), 88(л), 66(е)

154(л е), 103(йи), 77(жз), 94(к)

171(жзк), 154(л е), 103(йи)

257(л е й и), 171(жзк)

1

0

0(жзк), 1(л е й и)

0(жзк), 10(йи), 11(л е)

00(к), 01(жз), 10(йи), 11(л е)

00(к), 01(жз), 100(и), 101(й), 110(е), 111(л)

00(к), 010(з), 011(ж), 100(и), 101(й), 110(е), 111(л)

110(е), 011(ж), 010(з), 100(и), 101(й), 00(к), 111(л)

3) какое число задается двоичным кодом 00100110

0: 0

1: 0+0=0

2: 0+0+1=1

3: 0+0+1+0=1

4: 0+0+1+0+0=1

5: 0+0+1+0+0+1=0

6: 0+0+1+0+0+1+1=1

7: 0+0+1+0+0+1+1+0=1

0 0 1 1 1 0 1 1

$2^7$   $2^6$   $2^5$   $2^4$   $2^3$   $2^2$   $2^1$   $2^0$

32 + 16 + 8 + 2 + 1

ответ: 59

$$d = 2$$

$$q_0 = 4$$

$$q_1 = 1$$

$$q_2 = 1/2 = 3$$

$$q_3 = 4$$

$$D(x) = x - d$$

$$x - 2 = x + 3$$

$$\begin{array}{r}
 4x^2 + x + 3 \\
 \hline
 x+3 \overline{) 4x^3 + 8x^2 + x + 4} \\
 \underline{4x^3 + 2x^2} \phantom{+ 4} \\
 x^2 + x \phantom{+ 4} \\
 \underline{- x^2 + 3x} \phantom{+ 4} \\
 3x + 4 \\
 \underline{- 3x + 4} \\
 - \phantom{4}
 \end{array}$$

Answer:  $(3, 1, 4)$

Игзуица

нлогер

нлеграф

Вариант 28

$$1) \quad e = 19 \quad m = 39$$

$$\{16, 4, 19, 24\}$$

$$de = 1 \pmod{m}$$

$$19d = 1 \pmod{24}$$

$$19d + 24y = 1$$

$$24 = 19(1) + 5$$

$$19 = 5(3) + 4$$

$$5 = 4(1) + 1$$

$$1 = 5 - 1(4)$$

$$1 = 5 - 1[19 - 3(5)]$$

$$1 = 4(5) - 1(19)$$

$$1 = 4[24 - 1(19)] - 1(19)$$

$$1 = 4(24) - 5(19)$$

$$d = -5$$

$$y = 4$$

$$d = -5 \pmod{24}$$

$$d = 19$$

$$\{16, 4, 19, 24\}$$

$$16^{19} \pmod{39} = 16$$

$$4^{19} \pmod{39} = 4$$

$$19^{19} \pmod{39} = 7$$

$$24^{19} \pmod{39} = 15$$

$$\varphi(39) = \varphi(3) \cdot \varphi(13)$$

$$= 3(1 - 1/3) \cdot 13(1 - 1/13)$$

$$= 2 \cdot 12$$

$$= 24$$

$$(16 \ 4 \ 7 \ 15)$$

Омбем: O B E H

Exposition 22

4)  $q(x) = p(x) \cdot b(x)$

$q(x) = \frac{q(x)}{b(x)}$

$q(x) = q_0 + q_1x + q_2x^2 + q_3x^3$

$q_0 + q_1x + q_2x^2 + q_3x^3 = (x-1)^2$

$b(x) = x-1$

x	4
0	3
1	1
2	3
3	6
4	0

(0)  $x=0$   $q_0 = -3d$

(1)  $x=1$   $q_0 + q_1 + q_2 + q_3 = 1-d$  (2)

(2)  $x=2$   $q_0 + 2q_1 + 4q_2 + 8q_3 = 6-3d$  (3)

(3)  $x=-2$   $q_0 - 2q_1 + 4q_2 - 8q_3 = 0$  (4)

(4)  $x=-1$   $q_0 - q_1 + q_2 - q_3 = 0$  (5)

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(1) + (4)  $2q_0 + 2q_2 = 1-d$

$-6d + 2q_2 = 1-d$

$2q_2 = 1+5d$

$q_2 = 1/2 + 5d/2$

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$-3d + 2q_1 + 2 + 3q_3 = 6-3d$

$2q_1 + 3q_3 = 4$  (6)

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$-q_1 + 3/2 - 2q_3 = 0$

$2q_3 = 2q_1 + 3/2$  (7)

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$2q_1 + 4q_3 = 3$

$-2q_1 + 3q_3 = 4$

$q_3 = -1/4$

$2q_1 + 4q_3 = 3$

$2q_1 + 4 = 3$

$q_1 = -1/2$

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$3q_1 + 2q_3 = 3d$

$3 + 3 = 3d$

$d = 2$

$q_0 = 4$