5.
$$x_0 = 0$$
 $h = 2$ $p_{\bar{z}}: [-32, -8]$

$$\begin{bmatrix} 3 & 2 & 1 & 4 \\ 1/3 & 10/3 & 5/3 & 5/3 \\ 1/3 & 7/3 & 5/3 & 8/3 \\ 1/3 & 4/3 & 8/3 & 8/3 \end{bmatrix} \Rightarrow \begin{bmatrix} 3 & 2 & 1 & 4 \\ 1/3 & 6/3 & 5/3 & 5/3 \\ 1/3 & 7/40 & 7/2 & 3/2 \\ 1/3 & 7/40 & 2 & 2 \end{bmatrix}$$

$$\begin{bmatrix}
3 & 2 & 1 & 4 \\
1/3 & 10/3 & 5/3 & 5/3 \\
1/3 & 2/5 & 2 & 2 \\
1/3 & 4/10 & 1/4 & 3/2
\end{bmatrix} = \begin{bmatrix}
3 & 2 & 1 & 4 \\
\frac{1}{3} & \frac{10}{3} & \frac{5}{3} & \frac{5}{3} \\
\frac{1}{3} & \frac{2}{5} & 2 & 2 \\
\frac{1}{3} & \frac{4}{70} & \frac{1}{4} & 1
\end{bmatrix}$$

$$V = \begin{bmatrix} 2 \\ 4 \\ 2 \\ 3 \end{bmatrix}$$

```
1,MI (NEÉT OPET)
7.
        BILO
               NA
 8.
                                                                                                   1012 0 4
        GA
                                                                                                    506 0
 9.
                                                                                                    253 1
         PRECIENOST = Z DECIMALE
                                                                                                    ≈ 1000 vautorost
210 = 1024 V
        = 200 V21260~571
                                    10 BITOVA ZA XZ
                                                                     ULUANO 18 BITOVA
            & BITOVA ZAXA
                 b = \frac{x - d_{3}}{37 - d_{3}} \cdot \left(2^{n} - 1\right)
\frac{5}{24} \cdot 5 : b = \frac{5 - 0}{10 - 0} \cdot \left(2^{n} - 1\right) = \frac{1}{2} \cdot 1023 = 511.5 = 0.1111 \cdot 1111
   (-1,5)
 2000 2000 01111 41111
                                2A = 6 : 6 : \frac{0+1}{1+1} \cdot (2^{2}-1) = \frac{3}{2} \cdot 255 = 127.5 = 0.111 1111
  (0, 5.9)
                                29.9.9 = \frac{9.9.0}{10.0}.(2^{10}-1) = 0.99.1023 = 1012.77 = 11111 10100
= 0111 1111 11111 16100
                                                          0111 1111 : x= -1+ 111 · z = -1+ 0.996 ≈ 0
                                            11 111
                                   01111
                            0000
herzanjt.
                            1111
                                   11111
                                            10100
                                                        Anna 11111 : x = 0 + \frac{1}{1112} . 10 = 10
xy+R· (x + 4)
                                            10100
                            0000
                                   10000
                                            01011
                            1111
                O OMM
                                                         (0,10)
                                  11111 11111
                  + 0111
                            1111
      P= 0.005
   VJEROJATNOST DA ÉE BAREN JEDAN BITI U KROMOSOMU BITI
                                                                                          MUTIRAN 2
       P= 2. VIEROSATNOST BQ NI ITOQN BIT NECE BIT, MUTIRAN
         Px = 1 - (1 - pm)
              P_{x} = 1 - (1 - 0.005)^{18} = 0.086275 \approx 8.63\%
```

$$x_0 = (0,0)$$
 $x_1^2 - 2x_2 + 1 = 0$
 $x_1^2 + x_2^2 - 2 = 0$
 $x_1^2 - 2x_2 + 1 = 0$

i)
$$J \cdot \Delta x = -G = \begin{bmatrix} 2.0 & -2 \\ 2 & 2.0 \end{bmatrix} \cdot \begin{bmatrix} \Delta x_1 \\ \Delta x_2 \end{bmatrix} = \begin{bmatrix} -1 \\ 2 \end{bmatrix}$$

$$\frac{-20x_1 = 1}{2}$$

$$\frac{20x_1 = 2}{2}$$

$$\frac{20x_1 = 2}{2}$$

11.
$$F(x) = (x_1 - 15)^2 + (x_2 - 15)^2$$

FIBBUNACCISEU POSTUPAR, MINIMUM PAVAC V=[10]

$$\frac{1}{2}$$
 = (0,15) $X = \frac{x_1 = \lambda_1}{2} = \frac{x_2 = 0}{\lambda_1 = \lambda_1}$

$$F(\lambda) = (\lambda^{-1})^2 + 15^2 \qquad \lambda_0 = 0$$

		1	
0(i	C;	d;	6;
8	17	23	32
t	14	17	3 23
8	11	1314	317
11	14	14	17
STOP			

$$2 \in [8,32]$$

$$C = b - (b - a) \cdot \frac{p_{n-1}}{p_n}$$

$$Q_n > \frac{b - a}{\epsilon} = \frac{2^n}{3} = 8$$

$$d = a + (b - a) \cdot \frac{p_{n-1}}{p_n}$$

$$d = a + (b - a) \cdot \frac{p_{n-1}}{p_n}$$

Prinstruct: 14.01 +A 2 NTERVAL:[14.01 57]

INTERIOR to X: [14.01, 17] Xz=0