

1	
1	2)
2	1)
3	2)
4	2)
5	1)
2	
1	2) ,
2	1)
3	5)
4	4)
5	3) , .
6	4)
7	3) ,
8	2) ,
9	5)
10	3) ,
11	4)
12	1) 2500 . .
13	5) - 1.
14	2) ,
15	4)
3 (3 - ; 2 - - ; 0	
1	1) ; 2) ; 4)

2	1) 4) 5)
3	1) 2)
4	2) 4)
5	1) 3) 5)
6	3) 4)
7	2) 3) 4) 5)
8	2) 3)
9	1) 50 , 50 75 3) 70 , 40 25 4) 69 , 39 24 5) 0 , 199 1
10	1) 2) 3)

1. (30

; -0) ,

U -
x -
a, b, c -
U' -
 Δ_n - , n- (.. Δ_3 -
, Δ_8 -).
n- - Δ_n -
:

$$\Delta_n = U(n) - U(n - 1),$$

$$\Delta_n = n^2 + bn + c - \{a \cdot (n^2 - 2n + 1) + b \cdot (n - 1) + c\},$$

$$\Delta_n = 2n - a + b. (1)$$

$$\Delta_3 = 30,$$

$$\Delta_6 = 18,$$

(1),
(a b):

$$\begin{cases} 2a \cdot 3 - a + b = 30, \\ 2a \cdot 6 - a + b = 18. \end{cases}$$

$$\begin{aligned} a &= -2, \\ b &= 40. \end{aligned}$$

$$\Delta_0(0) = a \cdot 0^2 + b \cdot 0 + c = 0$$

$$U'(5) = -2 \cdot 5^2 + 40 \cdot 5 = 150$$

: 150

2. (30

-0

Q_D -
Q_S -
Q -
TR -

$$Q_D = Q_S = Q.$$

$$-4Q + 50 = 2Q + 20. (1)$$

(1)

$$Q = 5. (2)$$

(2)

$$P = 2 \cdot 5 + 20 = 30. (3)$$

(2) (3),

TR

$$TR = P \cdot Q = 30 \cdot 5 = 150.$$

: 150.

3. (30

; -0).

:

-
b -
x -
R -

2001 .,
2001 .,
2002 . 2001 .,
().

$$R = \frac{b}{a+b} \cdot 100.$$

2001 .:

$$20 = \frac{b}{a+b} \cdot 100, (1)$$

2002 .:

$$16 = \frac{x \cdot b}{1,05a + x \cdot b} \cdot 100. (2)$$

(1)

$$\frac{a}{b} = 4. (3)$$

(2),

$$\frac{100}{16} = \frac{1,05a}{x \cdot b} + 1,$$

(3)

$$\frac{84}{16} = \frac{1,05 \cdot 4}{x},$$

$$x = \frac{4,2 \cdot 16}{84} = 0,8.$$

$$1 - 0,8 = 0,2 = 20\%.$$

20%.

4. (40

;).

:

-
-
Y -
C -
G -
I -

(),

$$- = -50,$$

$$= - 50. (1)$$

$$= 1,25 . (2)$$

(1) (2),

$$= 1,25 - 1,25 \cdot 50,$$

$$= \frac{1,25 \cdot 50}{1,25 - 1} = 250 (\quad . \quad). (3)$$

$$Y = C + G + I + E - M.$$

$$6200 = C + G + I - 50.$$

$$C + G + I = 6200 + 50 = 6250 (\quad . \quad). (4)$$

(4) (3):

$$= \frac{M}{C + G + I} = \frac{250}{6250} = \frac{1}{25} = 4\%.$$

: $\frac{1}{25}$ 4%.