

9-11

1. (10 ) (8 ; 130 )

, , -

.

.

:

,

,

,

,

,

,

15 . ,

6 , 4 ,

7 .

?

:

,

: 1, 2, 3.

.

:

1- = 6(2 )

2- = 4(2 )

$$3 - = -7 \quad (2)$$

$$(1 + 2 + 3) : 3 = 15 \quad (2)$$

$$: = 14 \quad (2)$$

**14.**

**2. (25)**

2010  
100  
10  
40%,  
20%, 2011  
900  
2011 ?  
2010

$$5FC = VC \quad : TC(Q) = X \cdot 10\,000 + FC = 6 FC$$

**(3)**

$$X \cdot 10\,000 = 5FC \Rightarrow X = FC/2000 \quad (3)$$

$$: TC(Q) = (1,6 \cdot X/2 + 1,2 \cdot X/2) \cdot 20\,000 + FC = 1,4 X \cdot 20\,000 + FC = 1,4 \cdot FC/2000 = 15 FC \quad (7)$$

$$TR - TC = Pr, \quad Pr = 140 \cdot 20\,000 - 15FC \quad (2)$$

$$Pr = 100 \cdot 10\,000 - 6 FC \quad (2)$$

$$900\,000,$$

$$\dots 140 \cdot 20\,000 - 15FC - (100 \cdot 10\,000 - 6 FC) = 900\,000 \quad (2)$$

$$(6)$$

$$, FC = 100\,000 \quad (1)$$

$$, X = FC/2000, \quad X = 50 \Rightarrow X/2 = 25, 1,2X/2 = 30 \quad (1)$$

$$: 25 \cdot 10\,000 = 250\,000,$$

$$30 \cdot 20\,000 = 600\,000 \quad (3)$$

$$: 250\,000 \quad 600\,000$$

**1**

3. (9 )

20%.

20

30

?

$$1. M \cdot V = P \cdot Q \quad 20 \cdot V = P \cdot Q \quad (2)$$

2.

$$30 \cdot V = 1,2 P \cdot Q_1, \quad Q_1 = Q \cdot x \quad (3)$$

$$\begin{cases} 20 \cdot V = P \cdot Q \\ 30 \cdot V = 1,2 P \cdot Q \cdot x \end{cases} \Rightarrow x = 1,25$$

$$Q_1 = 1,25 \cdot Q, (3)$$

$$\dots \quad 25\%, \quad \Delta Q = Q_1 - Q = 0,25Q \quad (1)$$

: 25%

4. (25 )

$$Q = 2 \quad = 8.$$

2.

?

?

$$Q = a - bp,$$

$$Q = cp + d$$

$$E = bp / (a - bp), \dots$$

$$2 = 8b/2 \quad : b = 0,5 \quad (3)$$

$$2 = -0,5 \cdot 8 \quad 2 = 0,5 \cdot 8 + d$$

$$, \quad a = 6, \quad = -2 \quad (3)$$

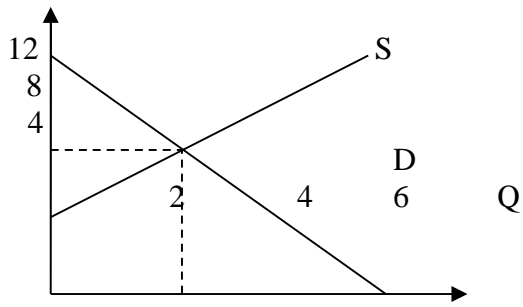
$$\dots, \quad Q_D = 6 - 0,5P; \quad Q_S = -2 + 0,5P \quad (3)$$

$$6 - 0,5 = 0 \quad -2 + 0,5 = 0$$

$$= 12, \quad = 4 \quad (3)$$

$$: = \frac{1}{2} (12 - 8) \cdot 2 = 4 \quad (4)$$

$$: = \frac{1}{2} (8 - 4) \cdot 2 = 4 \quad (4)$$



$D=|1|, \dots (1)$

$TR_{max} \quad E_D^P = |1|, \quad 1=0,5 / (6-0,5)$

$, =6, Q=3 (3)$

$TR_{max} = P * Q = 18 (1)$

$: \quad =4; \quad =4; \quad =6 \quad TR_{max}=18$

5. (10)

, ( ) 100

( )

5 . 200

?

:

,  $N-$  :  $MC = 5(N - 1). (3)$

( )

$MC = P. (3)$

,  $5(N - 1) = 200. (3)$

$N = 41. (1)$

: 41

6. (12)

:

, , « »

( ,

60 , , )

∴  $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$ ,  $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$ ,  $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$ .  
 (12)

1.
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
2. ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
3. ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
  - $\frac{1}{2} = \frac{1}{2} + \frac{1}{2}$  ( )
4.  $G=1/$  (3) - 4
5. - 0

7. (16 )

x,y,z.

1- 2-

( ) , 1

	1		2	
	P	Q	P	Q
X	2	50	3	45
Y	7	20	8	15
Z	25	10	20	15

	1			2			P <sub>1</sub> Q <sub>2</sub>
	P	Q	P <sub>1</sub> Q <sub>1</sub>	P	Q	P <sub>2</sub> Q <sub>2</sub>	
<b>X</b>	2	50	100	3	40	120	80
<b>Y</b>	7	20	140	8	10	80	70
<b>Z</b>	25	10	250	20	20	400	500
			490 (2 )			600 (2 )	
			1 (2 )			P <sub>2</sub> Q <sub>2</sub> / P <sub>1</sub> Q <sub>2</sub> = 0,9 (2 )	
			490 (2 )			666,6 (2 )	

: ... 1 - , 1, = , ... Q<sub>2</sub>.

$$= 666,6 / 490 = 1,36 \text{ (2 )}$$

$$(1,36 * 100) - 100 = 36\% \text{ (2 )}$$

: 1 = 1 = **490**

$$2 = \mathbf{600}$$

$$2 = \mathbf{666,6}$$

$$= \mathbf{0,9}$$

$$= \mathbf{1,36}$$

$$= \mathbf{36\%}$$

8. (23 )

, 8

		40	25	30	35	10	18	15	5

, 5.

?

4 ,

?

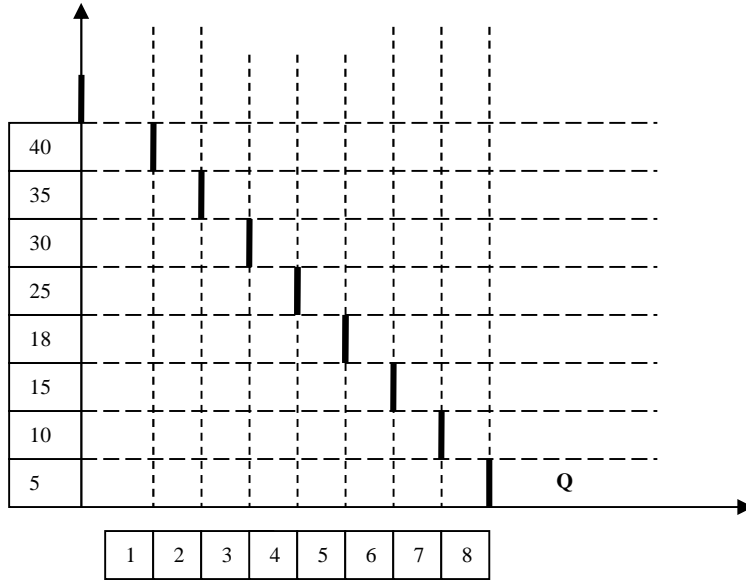
:

8 , . . .

, 5, , 10 . . .

7 . . .

:



- 15 .

- 10

- 0 .

= 5,

15

18 . . (3 )

4 ,

18

25 . . (3 ) : , , . (2 )