

10 -11-  
( )

1. 10 « / ».

2. 20 «5:1». - 1

3. 10 «5:N». 3 3 - 30 - 60 120

80 - 220. - 300

=====

1.=====

1. 1. 2.
2. 1. 2.
3. 30 , 28 , 1. 2.
4. 1. 2.
5. 1. 2.
6. 1. 2.
7. 1. 2.

8.

1.

2.

9.

100%, 200%,

50%,

1.

2.

10.

1.

2.

1.

20%.

50%.

1.

30%;

2.

25%;

3.

20%;

4.

15%;

5.

10%.

2.

1.

2.

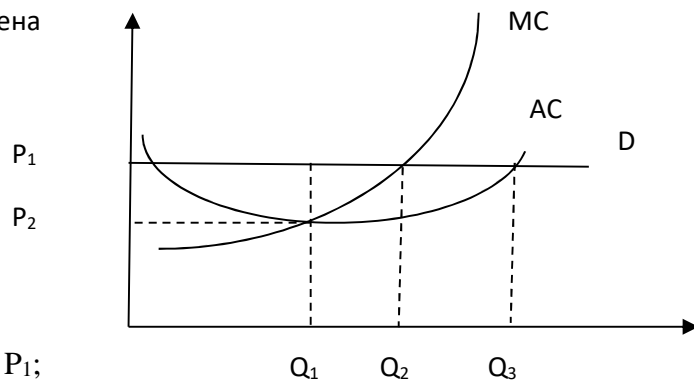
3.

4.

5.

3.

Цена



1.  $Q_1, P_1$ ;

2.  $Q_1, P_2$ ;

3.  $Q_2, P_1$ ;

4.  $Q_3, P_1$ ;

5.

4.

1.

2. ;
3. ;
4. ;
5. .

5. 1976 : 500  
 ;  
 , ;  
 .  
 ?

1. .
2. .
3. .
4. .
5. -1.

6. , 20% 2010 2  
 , 30% , 16 , 50% .  
 2010 20%

- ?
1. 50%;
  2. 57%;
  3. 64%;
  4. 67%;
  5. 75%.

7.

’ ,  $Q_s = 2p+4$ ,  $Q_d = x-p$ ,  
 \* 1. ?

1. 1;
2. 3;
3. 5;
4. 7;
5. 9.

9. 30% 2010 2010 2009 ? 2009

1. 30%;
2. 30%;
3. 70%;
4. ;
5. .

10.

? , , ,  
 1. - ;  
 2. ;  
 3. ;  
 4. ;

5.

2 .

11.

, : =  $Q^3 + 16$ ,  $Q$ - , ? .

1. 12;

2. 2;

3. 16;

4. 4;

5.

12.

, , , ,

:

1.

;

2.

;

3.

,

;

4.

,

;

5.

,

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13.

:

1.

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2.

;

3.

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4.

;

5.

.

14.

,

,

:

1.

;

2.

;

3.

;

4.

;

5.

.

15.

(-4).

20

20%.

20,

,

.

1. -5

2. -3

3. -4

4. -8

5.

16.

,

.

,

1.

P;

2.

Q;



- 3.
- 1.
- 2.
- 3.
- 4.
- 5.

; ; ; ;

- 4.
- 1.
- 2.
- 3.
- 4.
- 5.

$$AC = 0,7Q^2 - 20Q + 200 + 100 \setminus Q. \quad :$$

10

700;

120;

200;

4

624,8;

12,5

- 5.

- , , ,

- 1.
- 2.
- 3.

, , ; ; ; ;

- 4.
- 5.

; , ;

- 6.

, , :

- 1.
- 2.
- 3.
- 4.
- 5.

; ; ; ;

- 7.

:

- 1.
- 2.
- 3.
- 4.
- 5.

; ; ; ; ; ;

- 8.

:

- 1.
- 2.
- 3.
- 4.
- 5.

; ; ; ;

- 9.

, :

- 1.
- 2.
- 3.
- 4.
- 5.

1/3; 60 20; -2; 60 180; 90

10.

1.

2.

3.

4.

5.

=====

\_\_\_\_\_:

=====

1. (40 )

,

,

6

8

,

,

,

18

, 288

?

\_\_\_\_\_:

$$: Q_d = a - bP; Q_s = dP.$$

8

= 6.

$$8 = Q_d - Q_s = (a - bP) - dP = (a - b \times 6) - d \times 6.$$

$$- 6b - 6d = 8,$$

$$\underline{= 8 + 6(b + d).}$$

288

18

= 18,

$$288 = P(Q_s - Q_d) = P[dP - (a - bP)]$$

$$18 \times [d \times 18 - (a - b \times 18)] = 288$$

$$18d - a + 18b = 288$$

$$= 8 + 6(b + c),$$

$$18d - 8 - 6b - 18b + 18d = 16$$

$$12(d + b) = 24$$

$$\underline{d + b = 2}$$

$$= 8 + 6(b + d) = 8 + 6 \times 2 = 20$$

$$\underline{= 20}$$

$$Q_d = Q_s.$$

$$a - bP = dP$$

$$= P/(d + b)$$

$$= 20/2 = 10.$$

\_\_\_\_\_:

10

2. (40 )

(-2),

?

1- \_\_\_\_\_ :

1.

(TR<sub>1</sub>)

$$: Q_d = a - bP.$$

-2,

$$-2 = -B \frac{P}{a - bP},$$

$$: = /3b,$$

$$: Q = 2a/3.$$

$$TR_1 = P \times Q = a/3b \times 2a/3 = 2a^2/9b$$

$$TR_1 = 2a^2/9b$$

2.

(TR<sub>2</sub>).

-1.

$$-1 = -B \frac{P}{a - bP},$$

$$: = /2b,$$

$$: Q = 0,5a.$$

$$TR_2 = P \times Q = a/2b \times 0,5a = a^2/4b$$

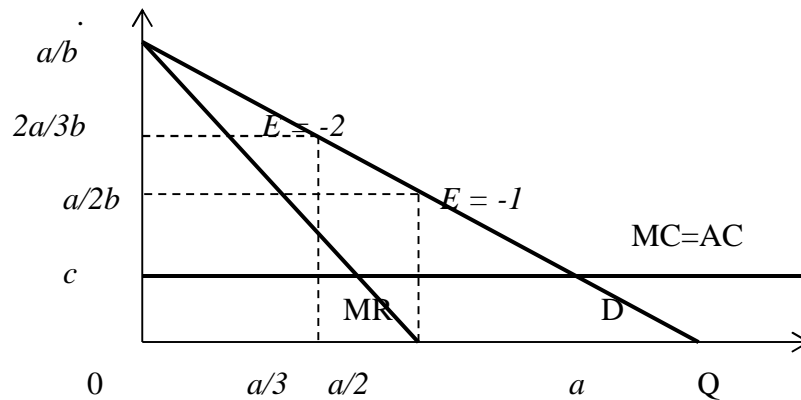
$$TR_2 = a^2/4b$$

3.

$$TR_2/TR_1 = a^2/4b : 2a^2/9b = 1,125 = 112,5\%$$

12,5%.

2- \_\_\_\_\_ :





$$TR_1 = P \times Q = 2a/3b \times a/3 = 2a^2/9b$$

$$TR_1 = 2a^2/9b$$

$$TR_2 = P \times Q = a/2b \times 0,5a = a^2/4b$$

$$TR_2 = a^2/4b$$

$$TR_2/TR_1 = a^2/4b : 2a^2/9b = 1,125 = 112,5\%$$

\_\_\_\_\_ : 12,5%.

3.(40 )

50%

50%, 40% 10%.

10%,

12,5%,

100%,

) « »,

20%?

\_\_\_\_\_ :

$$FC = 0,5TC = VC$$

$$TC_0 = 2FC$$

$$W_0 = 0,5VC_0 = 0,5FC$$

$$P_0 = 0,4VC_0 = 0,4FC$$

$$P_0 = 0,1VC_0 = 0,1FC$$

$$W_1 = 1,1 \times 0,5 \times FC = 0,55FC$$

$$P_1 = 1,125 \times 0,4FC = 0,45FC$$

$$P_1 = 2 \times 0,1FC = 0,2FC$$

$$TC_1 = FC + 0,55FC + 0,45FC + 0,2FC = 2,2FC$$

$$TC_1 = 1,1TC_0$$

$$P = \text{const}; Q = \text{const} \Rightarrow TR = P \times Q = \text{const}$$

$$\Delta_0 = \frac{TR - TC_0}{TC_0} = 0,2 \Rightarrow TR = 1,2TC_0 \Rightarrow TR = 2,4FC$$

$$\Delta = \frac{TR - TC_1}{TC_1} - 0,2 = \frac{2,4FC - 2,2FC}{2,2FC} = \frac{2}{10} - \frac{1}{11} = \frac{22 - 10}{110} = \frac{6}{55}$$

1.

4 . .

1/4.

1.

$$Q_S = c \cdot P \quad (Q = \dots, P = \dots, c = \dots)$$

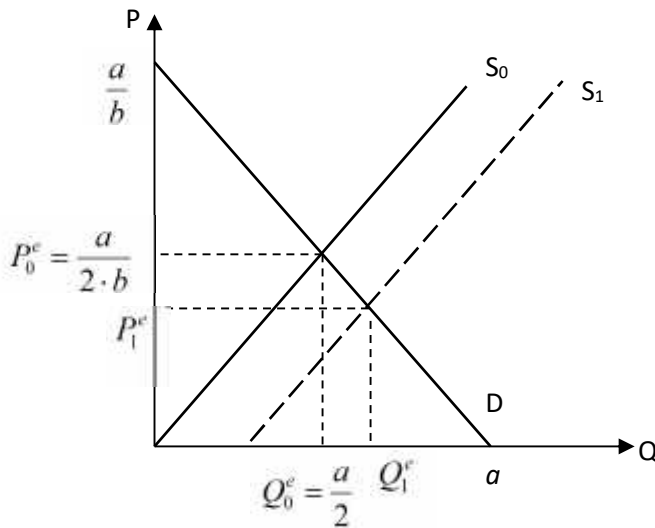
1 ( $E_S = 1$ ),

$$Q = d + c \cdot P, c > 0. \quad E_S = \frac{\partial Q_S}{\partial P} \cdot \frac{P^e}{Q^e} = c \cdot \frac{P^e}{d + c \cdot P^e} = 1, \quad d = 0.$$

2.

$|E_D| = 1$ ,

$$Q_D = a - b \cdot P, a > 0, b > 0, \quad P_0^e = \frac{a}{2 \cdot b}, Q_0^e = \frac{a}{2}.$$



3.

1,

$$Q_S = b \cdot P.$$

$$\frac{a}{2} = c \cdot \frac{a}{2 \cdot b} \Rightarrow c = b.$$

$$Q_S = b \cdot P.$$

4.

$$Q_S^1 = b \cdot (P + 4) = 4 \cdot b + b \cdot P.$$

1/4,

0,75 (

$$E_S = \frac{\partial Q_S^1}{\partial P} \cdot \frac{P_1^e}{Q_1^e} = \frac{b \cdot P_1^e}{4 \cdot b + b \cdot P_1^e} = 0,75.$$

$$P_1^e = 12.$$

$$(P_1^e = 12)$$

$$Q_D(12) = Q_S^1(12),$$

$$a - 12 \cdot b = 4 \cdot b + 12 \cdot b.$$

$$Q_1^e = 4 \cdot b + 12 \cdot b = 16 \cdot b,$$

$$a = 28 \cdot b.$$

$$: Q_D = 28 \cdot b - b \cdot P.$$

$$Q_0^e = \frac{a}{2} = \frac{28 \cdot b}{2} = 14 \cdot b.$$

$$\left( \right) \quad \frac{Q_1^e}{Q_0^e} = \frac{16 \cdot b}{14 \cdot b} = \frac{8}{7}.$$

$$\frac{1}{7} \cdot 100\% \approx 14,29\%.$$

$$: \quad \frac{1}{7} \cdot 100\% \approx 14,29\%.$$

5.(20 )

, 25% .  
 , 10% ,  
 20% ?

\_\_\_\_\_:

$S_0$ ,

$$: S_1 = 1,25 S_0,$$

$$: S_2 = 0,9 S_1 = 0,9 \cdot 1,25 S_0 = 1,125 S_0,$$

$$: S_3 = 1,1 S_0$$

$$: 1,125 S_0 - 1,1 S_0 = 0,025 S_0.$$

2,5 %.

$$: \quad 2,5\%.$$

6.(40 )

2011

( ).

\_\_\_\_\_ :

1.

2.

( S S1, )

3.

$$: Qd = a - bP$$

$$: Qs = c + dP$$

$$a - bP = c + dP$$

« »:

$$= a - bP - dP \quad (1)$$

(s)

$$: a - bP = c + d(P + s)$$

$$: ds = a - bP - (c + dP) \quad (2)$$

(2) « » (1):

$$ds = a - bP - (a - bP - dP + dP)$$

$$: ds = bP + dP - bP - dP$$

$$: s = (b/d + 1) \times (P - P)$$

1.

2.

$$: s = (b/d + 1) \times (P - P)$$