

$$\begin{cases} y = -x + 5 \\ y = -2x + 2m + 4 \end{cases}$$

$$-x + 5 = -2x + 2m + 4$$

$$\boxed{x = 2m - 1}$$

$$y = 5 - (2m - 1)$$

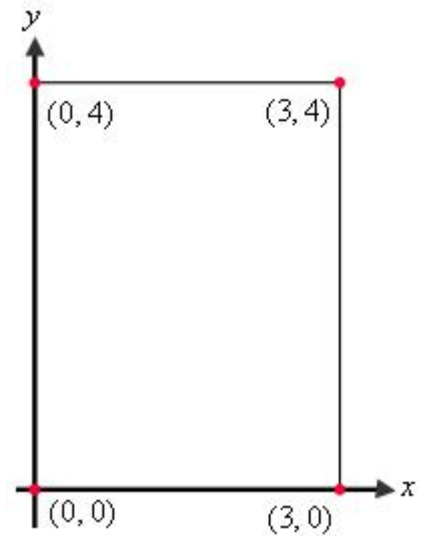
$$\boxed{y = 6 - 2m}$$

$$: \quad y = 5 - x$$

$$(2m - 1, 6 - 2m)$$

$$A(2m - 1, 6 - 2m) :$$

: , (1) .



$$0 < 6 - 2m < 4 \quad 0 < 2m - 1 < 3 :$$

$$, 0 < y < 4 \quad 0 < x < 3 :$$

$0 < 6 - 2m < 4$		$0 < 2m - 1 < 3$	
$0 < 6 - 2m$	$6 - 2m < 4$	$0 < 2m - 1$	$2m - 1 < 3$
$2m < 6$	$-2m < -2$	$-2m < -1$	$2m < 4$
$m < 3$	$m > 1$	$m > 0.5$	$m < 2$
$1 < m < 3$		$0.5 < m < 2$	
$1 < m < 2$			

$$1 < m < 2 :$$

"

(2)

$$\left. \begin{aligned} x &= \frac{0+3}{2} = 1.5 \\ y &= \frac{0+4}{2} = 2 \end{aligned} \right\} (1.5, 2)$$

A(2m-1, 6-2m) - , m

$$6 - 2m = 2 \qquad 2m - 1 = 1.5$$

$$\leftarrow -2m = 8 \qquad 2m = 2.5$$

$$m = -4 \qquad m = 1.25$$

A :

:

,005

.005

•  $q$  ,  $a_1, a_2, a_3, \dots$  I

•  $b_n$  - , I

•  $q_0$  ,  $a_1, b_1, a_2, b_2, a_3, b_3, \dots$  II

, II

$a_1$  - II  $a_2 = \frac{a_2}{a_1} = q_0^2$  , II

•  $(q > 0)$  ,  $q_0 = \sqrt{q}$   $q = q_0^2$  -  $\frac{a_2}{a_1} = q$  , I

$$q_0 = \sqrt{q} :$$

$$: 2a_{2II} = a_{2I} :$$

$$2a_{2II} = a_{2I}$$

$$2a_1q_0 = a_1q \quad /: a_1 > 0$$

$$2\sqrt{q} = q \quad \leftarrow q_0 = \sqrt{q}$$

$$2 = \sqrt{q} \quad /: \sqrt{q} > 0$$

$$\boxed{q = 4}$$

$$q = 4 :$$

• 9

5

(1)

" -  $a_1, b_1, a_2, b_2, a_3, b_3, a_4, b_4, a_5$

• 5

:

$$S_{9II} = S_{5I} + 340$$

340 -

(2)

$$q_0 = \sqrt{q} = \sqrt{4} = 2 :$$

$$S_{9II} = S_{5I} + 340$$

$$\frac{a_1(q_0^9 - 1)}{q_0 - 1} = \frac{a_1(q^5 - 1)}{q - 1} + 340$$

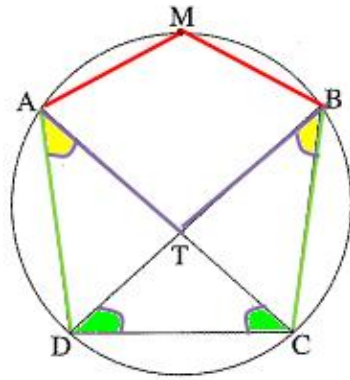
$$\frac{a_1(2^9 - 1)}{2 - 1} = \frac{a_1(4^5 - 1)}{4 - 1} + 340 \quad q = 4, q_0 = 2$$

$$511a_1 = 341a_1 + 340$$

$$170a_1 = 340$$

$$\boxed{a_1 = 2}$$

$$a_1 = 2 :$$

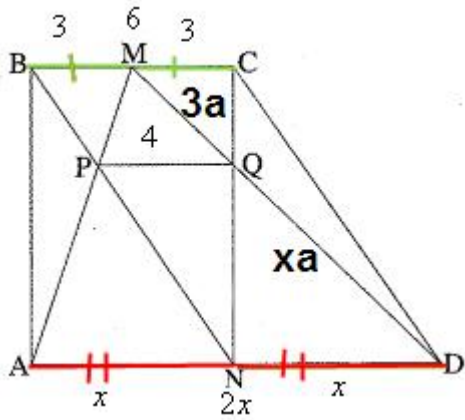


$\widehat{AM} = \widehat{BM}$  .2       $AD = BC$  .1

$\widehat{MBC} = 150^\circ$  .3

$\sphericalangle DBC$  .       $\triangle AMBT$  .       $\triangle ADC \cong \triangle BCD$  .      : "

	( ) $AD = BC$	4	1
	$\widehat{AD} = \widehat{BC}$	5	4
	$\widehat{AB} = \widehat{AB}$	6	
	$\widehat{BMD} = \widehat{AMC}$	7	6,5
	( ) $\sphericalangle BCD = \sphericalangle ADC$	8	7
	( ) $DC = DC$	9	
	$\triangle ADC \cong \triangle BCD$	10	9,8,4
. . . .			
	$AC = BC$	11	10
	$\sphericalangle ACD = \sphericalangle BDC$	12	10
$\triangle DTC$	$DT = CT$	13	12
	$AT = BT$	14	13,11
	$\widehat{AM} = \widehat{BM}$	15	2
	$AM = BM$	16	15
	$\triangle AMBT$	17	16,14
. . . .			
	$\widehat{MBC} = 150^\circ$	18	3
	$\widehat{MAD} = \widehat{MBC}$	19	15,5
	$\sphericalangle MAD = 150^\circ$	20	19,18
$360^\circ -$	$\widehat{DC} = 60^\circ$	21	20,18
	$\sphericalangle DBC = 30^\circ$	22	21
. . . .			



$BC \parallel AD$  .2       $ABCD$  .1  
 $AN = ND$  .4       $BM = MC$  .3  
 $PQ =$  " 4 .6       $BC =$  " 6 .5 .  
 $\frac{MC}{ND} = \frac{MP}{PA}$  (2)       $\frac{MC}{ND} = \frac{MQ}{QD}$  (1) . : "  
 $AD$  .  $PQ \parallel AD$  .

	$BC \parallel AD$	7	2
,	$MC \parallel ND$	8	7
2	$\frac{MC}{ND} = \frac{MQ}{QD}$	9	8
(1) . . .			
,	$BM \parallel AN$	10	7
2	$\frac{BM}{AN} = \frac{MP}{PA}$	11	10
	$BM = MC$	12	3
	$AN = ND$	13	4
	$\frac{MC}{ND} = \frac{MP}{PA}$	14	13, 12, 11
(2) . . .			
	$\frac{MQ}{QD} = \frac{MP}{PA}$	15	14, 9
	$PQ \parallel AD$	16	15
. . .			
	$BC =$ " 6	17	5
	$MC =$ " 3	18	17, 12
	$AN = ND = x$	19	13
	$AD = 2x$	20	19

		'	
	$\frac{MQ}{QD} = \frac{3}{x}$	<b>21</b>	<b>19 ,18 ,9</b>
	PQ = " 4	<b>22</b>	<b>6</b>
<b>1</b>	$\frac{PQ}{AD} = \frac{MQ}{MD}$	<b>23</b>	<b>16</b>
	$\frac{4}{2x} = \frac{3}{3+x}$	<b>24</b>	<b>,19 ,18 22 ,21</b>
	$12 + 4x = 6x$ $12 = 2x$ $x = 6$	<b>25</b>	<b>24</b>
	AD = " 12	<b>26</b>	<b>25 ,20</b>
. . .			

:

A	- $\bar{A}$	A	- A
B	- $\bar{B}$	B	- B

---


$$P(A) = 0.6 \rightarrow P(\bar{A}) = 0.4$$

$$P(B) = 0.8 \rightarrow P(\bar{B}) = 0.2$$

$$P(A/B) = 0.75 \rightarrow P(\bar{A}/B) = 0.25$$

---


$$P(A/B) = \frac{P(A \cap B)}{P(B)}$$

$$0.75 = \frac{P(A \cap B)}{0.8}$$

$$\boxed{P(A \cap B) = 0.6}$$


---

	$\bar{A}$	A	
	A -	A -	
0.8	0.2	0.6	B -    -B
0.2	0.2	0	B -    - $\bar{B}$
1	0.4	0.6	

, B , A (1)

$$P(A \cap \bar{B}) = 0$$

, 1 A , B (2)

$$P(A \cap \bar{B}) = 0$$

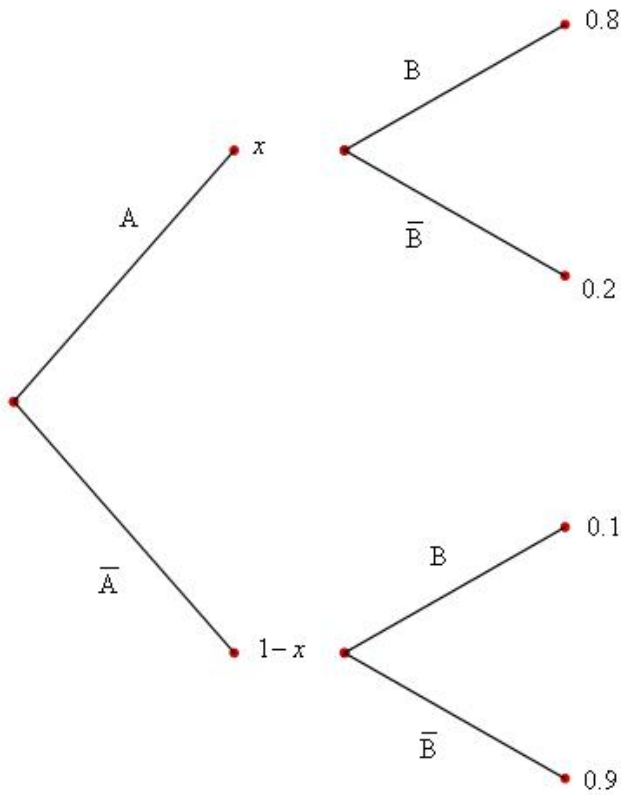
$$\begin{aligned}
 & ,1 \quad B \quad , \quad A \quad (3) \\
 & \cdot P(A \cap \bar{B}) = 0 \quad , \quad B \quad A \\
 & P(\bar{A} \cap B), P(\bar{A} \cap \bar{B}) \neq 0 \quad ,1 \quad A \quad , \quad B \\
 & \cdot ( \quad B \quad , P(\bar{A} \cap B) = P(\bar{A} \cap \bar{B}) \quad )
 \end{aligned}$$

$$\cdot 0.2 \quad P(A \cup B) = 1 - P(\bar{A} \cap \bar{B}) = 0.8 : \quad .$$

$$\cdot 0.8^3 \cdot 0.2^2 = 0.02048 :$$

$$\cdot 0.02048 \quad - \quad , \quad :$$





-  $\bar{A}$  " - A  
 -  $\bar{B}$  " - B

$$P(B/A) = 0.8 \rightarrow P(\bar{B}/A) = 0.2$$

$$P(B/\bar{A}) = 0.1 \rightarrow P(\bar{B}/\bar{A}) = 0.9$$

$$P(A/B) = 0.95 \rightarrow P(\bar{A}/B) = 0.05$$

**נוח להשתמש בעץ אפשרויות, כאשר אלו הנתונים**

$$P(A) = x \rightarrow P(\bar{A}) = 1 - x$$

$$P(A/B) = \frac{P(A \cap B)}{P(B)}$$

$$0.95 = \frac{0.8x}{0.8x + 0.1(1-x)}$$

$$0.76x + 0.095 - 0.095x = 0.8x$$

$$-0.135x = -0.095$$

$$x = \frac{19}{27} = 70.37\%$$

70.37% :

$0.8 \leq P(A) = x \leq 1$  -

$$P(B) = P(A) \cdot P(B/A) + P(\bar{A}) \cdot P(B/\bar{A})$$

$$P(B) = x \cdot 0.8 + (1-x) \cdot 0.1$$

$$P(B) = 0.8x + 0.1 - 0.1x$$

$$P(B) = 0.7x + 0.1$$

$$x = \frac{P(B) - 0.1}{0.7}$$

$$\frac{P(B) - 0.1}{0.7} \geq 0.8 \leftarrow 0.8 \leq P(A) = x \leq 1 \rightarrow \frac{P(B) - 0.1}{0.7} \leq 1$$

$$P(B) - 0.1 \geq 0.56$$

$$P(B) - 0.1 \leq 0.7$$

$$P(B) \geq 0.66$$

$$P(B) \leq 0.8$$

80 - 66

80 - 66

"