

: (1) .

$$m, (6m - 2m^2)x = m^2 - 4m + 3$$

$$2m(3 - m)x = (m - 1)(m - 3)$$

$$0x = 0 \quad m = 3$$

$$0x = 3 \quad m = 0$$

$$.((1) ) \quad m \neq 0, 3$$

:

$$- \quad m = 3$$

$$m = 0 \quad (2)$$

$$m \neq 0, 3 \quad (3)$$

: (1) .

$$2m(3 - m)x = (m - 1)(m - 3)$$

$$x = \frac{(m - 1) \overset{-1}{\cancel{(m - 3)}}}{2m \overset{-1}{\cancel{(3 - m)}}$$

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

$$. m \neq 0, 3, x = \frac{1 - m}{2m} :$$

$$, m \neq 0, 3, x = \frac{1 - m}{2m}, y = m(2m + 5)x \quad A \quad (2)$$

$$. y = m(2m + 5) \cdot \frac{1 - m}{2m} = 0.5(2m + 5)(1 - m) : x -$$

," ") ,

y -

$$. m = 1 \quad m = -2.5$$

, x -

A ,

$$m < -2.5, m > 1, m \neq 3$$

$$. m < -2.5, m > 1, m \neq 3 :$$

35005

12

$$q = \frac{4k^2}{2k} = 2k, \quad 0 < q < 1, \quad , 2k, 4k^2, 8k^3, \dots$$

$$(S)^2 = 4 :$$

$$(S)^2 = 4$$

$$\left(\frac{a_1}{1-q}\right)^2 = 4$$

$$\left(\frac{2k}{1-2k}\right)^2 = 4$$

$$\frac{2k}{1-2k} = 2$$

$$\frac{2k}{1-2k} = -2$$

$$2k = 2(1-2k)$$

$$2k = -2(1-2k)$$

$$2k = 2 - 4k$$

$$2k = -2 + 4k$$

$$6k = 2$$

$$-2k = -2$$

$$k = \frac{1}{3}$$

$$k = 1$$

$$\boxed{q = \frac{2}{3}}$$

$$q \neq 2 \leftarrow 0 < q < 1$$

$$\cdot \frac{2}{3} :$$

$$\frac{2}{3}, \frac{4}{9}, \frac{8}{27}, \dots :$$

$$\frac{S_4}{S_{\text{after } a_5}} = \frac{a_1(q^4 - 1)}{q - 1} = \frac{a_1(q^4 - 1)}{q - 1} \cdot \frac{1 - q}{a_1 q^5} \quad /: a_1, (q - 1) > 0$$

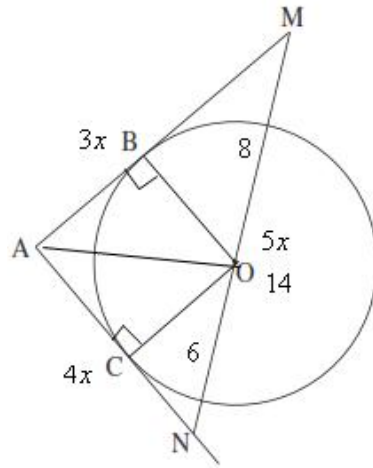
$$\frac{S_4}{S_{\text{after } a_5}} = \frac{-(q^4 - 1)}{q^5}$$

$$\frac{S_4}{S_{\text{after } a_5}} = \frac{-\left(\left(\frac{2}{3}\right)^4 - 1\right)}{\left(\frac{2}{3}\right)^5}$$

$$\boxed{\frac{S_4}{S_{\text{after } a_5}} = 6.09375}$$

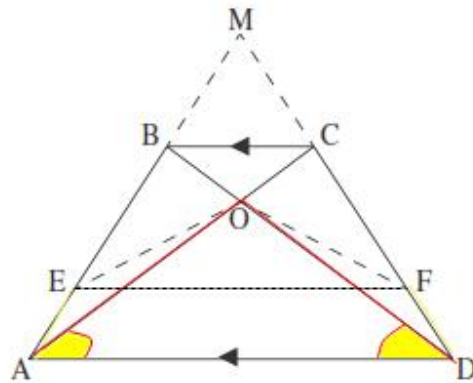
$$\cdot 6.09375 :$$

"



- .B O AM .1
- .C O AN .2
- AM ⊥ AN .3 :
- NO = " 6 .5 MO = " 8 .4
- ∠MAO = ∠NAO . : "
- AN (2)  $\frac{AM}{AN}$  (1) .

	B O AM	5		1
	∠OBA = 90°	6		5
	C O AN	7		2
	∠OCA = 90°	8		7
	( ) AO = AO	9		
O	( ) CO = BO	10		
	( ) ∠OBA = ∠OCA	11		8,6
	ΔCOA ≅ ΔBOA	12		11,10,9,8,6
	∠MAO = ∠NAO	13		12
	. . .			
	MO = " 8	14		4
	NO = " 6	15		5
ΔMAN	$\frac{AM}{AN} = \frac{8}{6} = \frac{4}{3}$	16		15,14,13
	(1) . . .			
	AM ⊥ AN	17		3
	AN = 3x	18		
	AM = 4x	19		18,16
ΔMAN	MN = 5x	20		19,18,17
	MN = " 14	21		19,18,17
	$AN = \frac{4}{5} \cdot 14$	22		21,20,19
	AN = " 8.4	23		22
	(2) . . .			



BC || AD .2

ABCD .1

AE = DF .3

$\triangle ABD \cong \triangle DCA$  . : "

EO = FO (2) AO = DO (1) .

EF || AD (2) MB = MC (1) .

		,	
	ABCD	4	1
	BC    AD	5	2
	( ) AB = CD	6	5,4
	( ) BD = CA	7	4
	( ) AD = AD	8	
	$\triangle ABD \cong \triangle DCA$	9	8,7,6
. . .			
	$\sphericalangle OAD = \sphericalangle ODA$	10	9
$\triangle AOD$	( ) AO = DO	11	10
(1) . . .			
	$\sphericalangle BAD = \sphericalangle CDA$	12	6,4
	( ) $\sphericalangle EAO = \sphericalangle FDO$	13	10,12
	( ) AE = DF	14	93
	$\triangle EAO \cong \triangle FDO$	15	14,13,11
	EO = FO	16	15
(2) . . .			
$\triangle AMD$	MA = MD	17	12
	MB = MC	18	17,6
(1) . . .			
	ME = MF	19	17,14
	$\frac{ME}{EA} = \frac{MF}{FD}$	20	19,6
	EF    AD	21	20
(2) . . .			

35005

12

32 " , 12 - 20 1/ .

$$\frac{20 \cdot 19 \cdot 18}{32 \cdot 31 \cdot 30} = \frac{57}{248}$$

$$\frac{57}{248}$$

(1)

$$\left(\frac{20}{32}\right)^3 = \frac{125}{512}$$

$$3 \cdot \frac{12}{32} \cdot \left(\frac{20}{32}\right)^2 = \frac{225}{512}$$

$$P(\text{at least 2 boys}) = \frac{125}{512} + \frac{225}{512} = \frac{175}{256}$$

$$\frac{175}{256}$$

,(

)

(2)

$$P(\text{not all three are boys} / \text{at least 2 boys}) = \frac{P(\text{not all three are boys} \cap \text{at least 2 boys})}{P(\text{at least 2 boys})}$$

$$P(\text{not all three are boys} / \text{at least 2 boys}) = \frac{\frac{225}{512}}{\frac{175}{256}} = \frac{9}{14}$$

$$\frac{9}{14}$$

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

$$P(B/A) = 0.7 \rightarrow P(\bar{B}/A) = 0.3$$

$$P(\bar{B}/\bar{A}) = 0.7 \rightarrow P(B/\bar{A}) = 0.3$$

$$P(B) = 0.62 \rightarrow P(\bar{B}) = 0.38$$

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

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

$$0.62 = 0.7x + 0.3(1 - x)$$

$$0.62 = 0.7x + 0.3 - 0.3x$$

$$0.32 = 0.4x$$

$$x = 0.8 \rightarrow P(A) = 0.8, P(\bar{A}) = 0.2$$

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

$$0.7 = \frac{P(B \cap A)}{0.8}$$

$$P(B \cap A) = 0.56$$

	$\bar{A}$	A	
0.62	0.06	0.56	- B
0.38	0.14	0.24	- $\bar{B}$
1	0.2	0.8	

$$P(A/B) = \frac{P(A \cap B)}{P(B)} = \frac{0.56}{0.62} = \frac{28}{31}$$

$$\frac{28}{31}$$

$$P(B / A) = 0.7 \neq P(B) = 0.62 : \quad (1) .$$

:

.

$$P(A / B) = \frac{28}{31} > P(A) = 0.8 : \quad (2)$$

.

.

,

,

,

:

,

,

.

,

: