

1.

Γ_1 Γ_2 M, N . N M 가 Γ_1 Γ_2
 ℓ . ℓ Γ_1 Γ_2 A, B . M ℓ
 Γ_1 C, Γ_2 D .
 CA DB $E; AN$ CD $P; BN$ CD Q .
 $EP = EQ$.

2.

a, b, c $abc=1$

$$\left(a - 1 + \frac{1}{b}\right) \left(b - 1 + \frac{1}{c}\right) \left(c - 1 + \frac{1}{a}\right) \leq 1.$$

3.

$n \geq 2$

n . n

λ

A, B

A, B

A

B

C

$$\frac{BC}{AB} = \lambda$$

λ

M

n

M

가

, 2000 7 20

: 4 30
: 7

4. 가 1 100 100 , , 3

가 . 가 가?
(가)

5. n .
n 2000 , n $2^n + 1$.

6. ABC H_1, H_2, H_3 A, B, C BC, CA,
AB . ABC BC, CA, AB
 T_1, T_2, T_3 . H_2H_3, H_3H_1, H_1H_2 T_2T_3, T_3T_1, T_1T_2
 l_1, l_2, l_3 가
ABC .