

10

1. S = 127 · 64. 127 - ,  
 64, N  
 S, N=127, N . N = 127  
 , ,

2.  $x = 0, 1 - xy = 1. x \neq 0. 1 - xy,$   
 $x^2:$   
 $x^3 + y^3.$

$$x^2(1 - xy) = x^2 - x^3y.$$

$$y^4,$$

$$x^2(1 - xy) = x^2 - x^3y - y^4 + y^4 = x^2 - y(x^3 + y^3) + y^4 = x^2 - 2xy^2 + y^4 = (x - y^2)^2.$$

$$1 - xy = \left( \frac{x - y^2}{x} \right)^2.$$

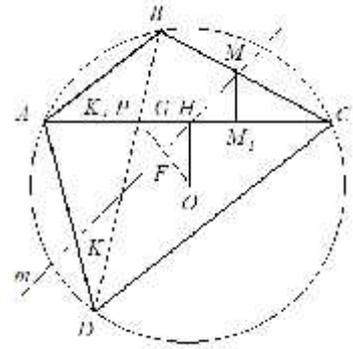
- 3.

$$y = p^2 - 2px + x^2 + 4x - 2x^2 \quad y + 2x^2 - 4x = (p - x)^2.$$

$$: , \quad y < 4x - 2x^2.$$

4. K, L, M N m  
 OP. , K m  
 AP,

MM<sub>1</sub>, FG OH KM. F OP  
 AC. K1 – KK<sub>1</sub>,  
 PH, H – AP, M1 –  
 AC.



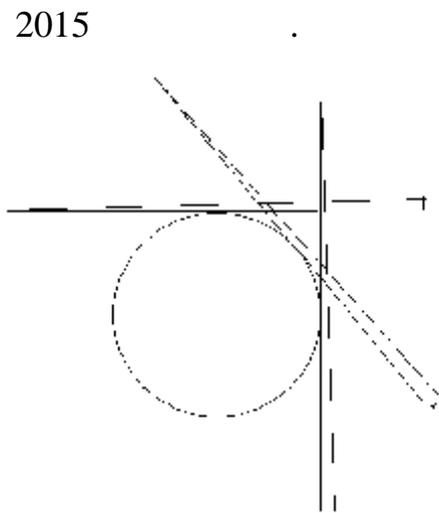
$$K_1G = K_1P - PG = \frac{1}{2}(AP - PH) = \frac{1}{2}AH = \frac{1}{2}CH = \frac{1}{2}(CP + PH) = M_1P + PG = M_1G.$$

$$KF = FM.$$

, F

LN,

5.



$\pi/2$

2014

4

2016

2015·1008

i

M<sub>jk</sub>

$\sigma_i$

r<sub>ijk</sub>

M<sub>jk</sub>

$\sigma_i$ .

j k

2014·2015·1008

r<sub>ijk</sub>,

(

m.

$\sigma_i$   
 $\Delta_i,$   $m/2.$   
 $\Delta_i,$   
 $\Delta_i,$   
 $\Delta_i$   
 $M_{jk}$   
 $\sigma_i,$   $i \neq j$   $i \neq k.$   
 $\sigma_i,$   $\omega$   
 $M_{jk},$   $\omega$   
 $\sigma_j$   $\sigma_k.$   $M_{jk}$   $\sigma_i$   
 $m,$   
 $\Delta_j$   $\Delta_k$   $\Delta_i$   
 $m/2.$   
 $:$