

9

9.1.  $x(x-1)(x-2) + (100-x)(99-x)(98-x) = 0.$

\_\_\_\_\_ :  
 ( \_\_\_\_\_ )  
 $x_0 = \frac{100}{2} = 50;$

50,  $t = x - 50,$   
 $(50-t)(49-t)(48-t),$   
 $f(t) = (50+t)(49+t)(48+t) + t^3$   
 $t = 0$  ( \_\_\_\_\_ )  
 (  $t^2$  )

9.2. \_\_\_\_\_ )  
 \_\_\_\_\_ ) 2014;

\_\_\_\_\_ ) 2013?  
 \_\_\_\_\_ ; \_\_\_\_\_

$\frac{A}{2} + 2B = A + B \Leftrightarrow A = 2B,$   
 $+ = 3 = n.$  ) = 2014  
 3. ) = 2013  
 $= 1342 \quad b = 671 = a/2.$

9.3.  $ABCD,$   $ADC,$

\_\_\_\_\_ .  $AB = a, BC = b, CD = c, AD = d, AC = e$

$AM = \frac{a+e-b}{2}.$   
 $ACD$   $N,$  :  $AN = \frac{d+e-c}{2}.$

$AM = AN$   $a - b = d - c \Leftrightarrow a + c = b + d,$

9.4. \_\_\_\_\_ )  
 \_\_\_\_\_ )  
 \_\_\_\_\_ ) 20 15

\_\_\_\_\_ : , . \_\_\_\_\_ .  $a = 20, b = 15, v =$  \_\_\_\_\_ .  
 $\sqrt{(a - vt)^2 + (b - vt)^2}$  .  $f(t) = (a - vt)^2 + (b - vt)^2$  ( \_\_\_\_\_ )

o  $2v^2$

$$t_0 = \frac{(a+b)v}{2v^2} = \frac{a+b}{2v}$$

$$|a - vt_0| = |b - vt_0| = \frac{|a-b|}{2}$$

$$t_0 \frac{(a-b)\sqrt{2}}{2} = \frac{5\sqrt{2}}{2} < 4 \text{ ( _____ , _____ } t_0$$

**9.5.**

4 , \_\_\_\_\_ - 1, 2, 3 5

\_\_\_\_\_ : \_\_\_\_\_ .

9 ? \_\_\_\_\_ , \_\_\_\_\_

\_\_\_\_\_ : , . \_\_\_\_\_ . 8.5.