

$$y = x^2 - 6x + 8$$

$$x = -\frac{b}{2a}$$

$x$

$$(3, -1)$$

$$y = 3^2 - 6 \cdot 3 + 8 = -1 \quad x_B = \frac{-(-6)}{2 \cdot 1} = 3$$

$$(3, -1)$$

:

$$x > 3$$

$$x < 3$$

$$x < 3 : \quad , \quad x > 3 : \quad :$$

$$y = x^2 - 6x + 8$$

$$g(x) = -x + 4$$

:

$$\begin{cases} f(x) = x^2 - 6x + 8 \\ g(x) = -x + 4 \end{cases}$$

$$x^2 - 6x + 8 = -x + 4$$

$$x^2 - 6x + 8 + x - 4 = 0$$

$$x^2 - 5x + 4 = 0$$

$$x_{1,2} = \frac{-(-5) \pm \sqrt{(-5)^2 - 4 \cdot 1 \cdot 4}}{2}$$

$$x_{1,2} = \frac{5 \pm \sqrt{9}}{2} = \frac{5 \pm 3}{2}$$

$$x_1 = \frac{5+3}{2} = \frac{8}{2} = 4 \rightarrow y = -4 + 4 = 0 \rightarrow \boxed{B(4, 0)}$$

$$x_2 = \frac{5-3}{2} = \frac{2}{2} = 1 \rightarrow y = -1 + 4 = 3 \rightarrow \boxed{C(1, 3)}$$

$$C(1, 3), \quad B(4, 0):$$

$$C(1, 3) - B(4, 0)$$

$$d_{BC} = \sqrt{(4-1)^2 + (0-3)^2} = \sqrt{18} \approx 4.243$$

$$\sqrt{18} \approx 4.243 \quad 1BC \quad :$$

$$a_4 = 71 \quad a_1 = 83, \quad 13$$

$$a_n = a_1 + (n-1)d$$

$$a_4 = 71$$

$$71 = a_1 + (4-1) \cdot d$$

$$71 = 83 + 3d$$

$$-12 = 3d \quad /:3$$

$$\boxed{d = -4}$$

$$(d = -4) \quad " \quad 4 \quad :$$

$$(a_{10}, a_{11}, a_{12}, a_{13} :$$

)

$$a_n = a_1 + (n-1)d$$

$$a_{10} = a_1 + (10-1)d$$

$$a_{10} = 83 + 9 \cdot (-4)$$

$$a_{10} = 83 - 36$$

$$\boxed{a_{10} = 47}$$

$$(a_{10} = 47) \quad " \quad 47 \quad :$$

$$S_n = \frac{n[2a_1 + d \cdot (n-1)]}{2}$$

$$S_{13} = \frac{13[2 \cdot 83 - 4 \cdot (13-1)]}{2}$$

$$S_{13} = \frac{13 \cdot (166 - 4 \cdot 12)}{2}$$

$$S_{13} = \frac{13 \cdot 118}{2}$$

$$\boxed{S_{13} = 767}$$

$$(S_{13} = 767) \quad " \quad 767 \quad :$$

$$M_t = M_0 \cdot q^t$$

$q = \frac{100+P}{100}$  : , ( )  
 .t .q ( )  
 . t -  $M_t$  , -  $M_0$   
 ) P

24,000 .

.30% -

:  
 $q = \frac{100+30}{100} = \frac{130}{100} = 1.3$

5

$M_t$	$M_0$	q	t
?	24,000	1.3	5

$$M_5 = 24,000 \cdot 1.3^5$$

$$M_5 \approx 89110$$

. , 89,110

5 :

32,000

(t = 2)

$$50000 = 32000 \cdot q^2 \quad / : 32000$$

$$1.5625 = q^2$$

$$q = \sqrt[2]{1.5625}$$

$$q = 1.25$$

$$1.25 = \frac{100+P}{100} \quad / \cdot 100$$

$$125 = 100 + P \quad / - 100$$

$$P = 25\%$$

. 25% -

:

5

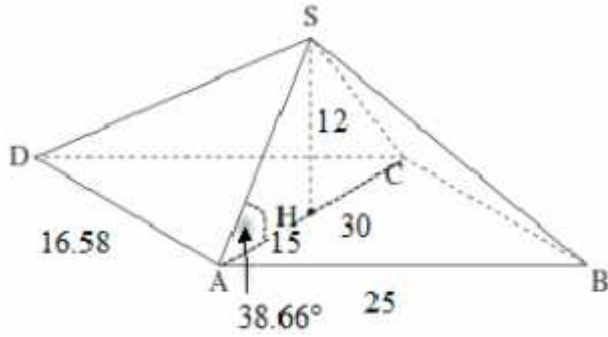
$M_t$	$M_0$	$q$	$t$
?	32,000	1.25	5

$$M_5 = 32,000 \cdot 1.25^5$$

$$M_5 \approx 97656$$

5 , 97,656  
) 5 , 89,110

5 :



△ABC

$$(AC)^2 = (AB)^2 + (BC)^2$$

$$30^2 = 25^2 + (BC)^2$$

$$900 = 625 + (BC)^2$$

$$275 = (BC)^2$$

$$BC = \sqrt{275} \approx 16.58$$

$$BC = \text{ " } 16.58$$

$$AD = BC = \text{ " } 16.58$$

$$\text{ " } 16.58 \quad AD \quad :$$

, ∠SAH -

.AH

$$AH = \frac{AC}{2} = \frac{30}{2} = \text{ " } 15$$

△SHA

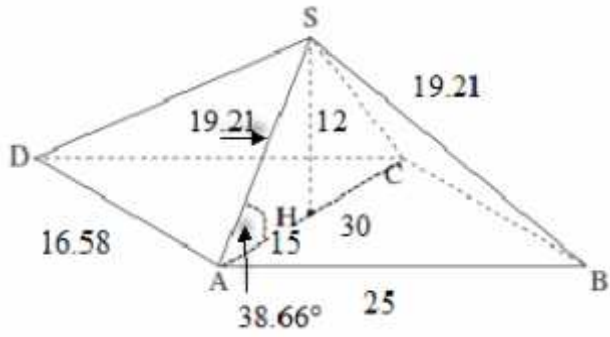
$$\tan \angle SAH = \frac{SH}{HA}$$

$$\tan \angle SAH = \frac{12}{15}$$

$$\boxed{\angle SAH = 38.66^\circ}$$

$$\text{ " } 38.66^\circ$$

:



: AS , ,

$\triangle ASH$

$$(AS)^2 = (AH)^2 + (SH)^2$$

$$(AS)^2 = 15^2 + 12^2$$

$$(AS)^2 = 369$$

$$AS = \sqrt{369} \approx 19.21$$

$$BS = AS = " 19.21 ,$$

$$. 19.21 + 19.21 + 25 = " 63.42 \quad ABS$$

$$. " 63.42 \quad ABS :$$

. 90 , 80 , 72 , 58 :

(1) .

:

$$\bar{x} = \frac{58+72+80+90}{4}$$

$$\bar{x} = \frac{300}{4}$$

$$\boxed{\bar{x} = 75}$$

.( $\bar{x} = 75$ ) 75

:

.( )

190 , 80 , 72 , 58 :

(2)

,

$$\frac{72+80}{2} = \frac{152}{2} = 76$$

. 76

:

. 100 :

,

(1) .

:

$$\bar{x} = \frac{58+72+80+90+100}{5}$$

$$\bar{x} = \frac{400}{5}$$

$$\boxed{\bar{x} = 80}$$

.( $\bar{x} = 80$ ) 80

:

. 0 :

,

(2)

:

$$\bar{x} = \frac{58+72+80+90+0}{5}$$

$$\bar{x} = \frac{300}{5}$$

$$\boxed{\bar{x} = 60}$$

.( $\bar{x} = 60$ ) 60

:

$$\cdot (\bar{x} = 72) \cdot 72$$

$$\cdot , (x - \quad ) \cdot$$

$$72 = \frac{58 + 72 + 80 + 90 + x}{5} \quad / \cdot 5$$

$$360 = 300 + x$$

$$\boxed{x = 60}$$

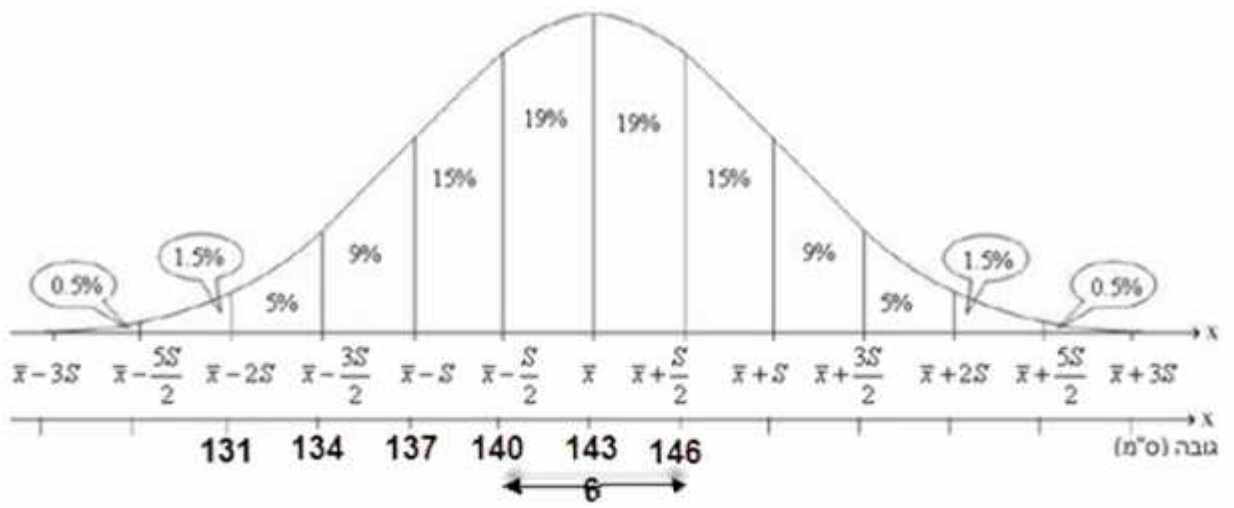
.72

,60

:



. " 146 - 69% (1) .  
 .50% + 19% = 69% ,  
 " 146 ,  
 . " 140 - 69%  
 .50% + 19% = 69% ,  
 " 140 ,  
 " 140 - " 146 : \_\_\_\_\_



. " 6 ,  
 $\bar{x} = 140 + 3 \rightarrow \bar{x} = 143 : \frac{S}{2} = \frac{6}{2} = 3 \quad S = 6 -$

.  $\bar{x} = \frac{140 + 146}{2} = 143 :$

. " 143 :

. " 6 : (2)

$$\bar{x} = 143 \quad s = 6$$

2% -

98% -

$$.05\% + 1.5\% = 2\%$$

.(

$$) \quad 143 - 2 \cdot 6 = 131 :$$

2s

. x = 131 :

