

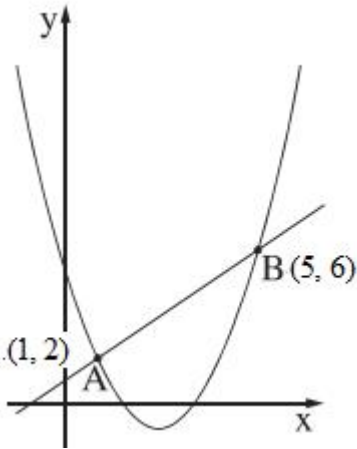
, $f(x) = x^2 - 5x + 6$:

.B - A

. $f(1) = 1^2 - 5 \cdot 1 + 6 = 2 \rightarrow \boxed{A(1, 2)}$: ,1 A x -

. $f(5) = 5^2 - 5 \cdot 5 + 6 = 6 \rightarrow \boxed{B(5, 6)}$: ,5 B x -

. B(5, 6), A(1, 2) :



. $y = x + 1$ A(1, 2)

? $y = x + 1$ 1A(1, 2) 12 = 2 , 2 = 1 + 1

? $y = x + 11$ 1B(5, 6)1

? $y = x + 1$ 1B(5, 6) 16 = 6 , 6 = 5 + 1

. :

.A - ,B -

. $x < 1$ $x > 5$:

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

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

.50°C - 5 80°C

M_t	M_0	q	t
50°C	80°C	?	5

$$50 = 80 \cdot q^5 \quad / : 80$$

$$\frac{50}{80} = q^5$$

$$0.625 = q^5$$

$$q = \sqrt[5]{0.625}$$

$$\boxed{q \approx 0.9103}$$

$$0.9103 = \frac{100 - P}{100} \quad / \cdot 100$$

$$\Leftrightarrow 91.03 = 100 - P$$

$$\Leftrightarrow \boxed{P = 8.97\%}$$

. 8.97% -

10

M_t	M_0	q	t
?	80°C	0.9103	10

$$M_{10} = 80 \cdot 0.9103^{10}$$

$$\boxed{M_{10} = 31.25^\circ\text{C}}$$

. 31.25°C 10

$$\cdot \frac{75}{100} \cdot 80^\circ\text{C} = 60^\circ\text{C}$$

75%

.60°C -

M_t	M_0	q	t
60°C	80°C	0.9103	?

$$60 = 80 \cdot 0.9103^t$$

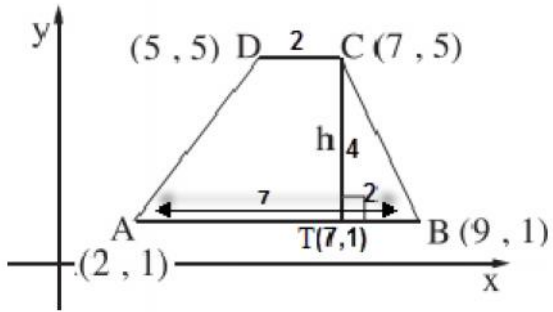
$$80 \cdot 0.9103^1 = 72.82$$

$$80 \cdot 0.9103^2 = 66.28$$

$$80 \cdot 0.9103^3 = 60.34 \text{ o.k.}$$

75% -

() 3 :



. $DC = x_C - x_D = 7 - 5 = 2$,

y -

. $AB = x_B - x_A = 9 - 2 = 7$,

y -

, x -

x -

. (7,1)

T

AB

$h = y_C - y_T = 5 - 1 = 4$

. $h = 4$:

. $BT = x_B - x_T = 9 - 7 = 2$.

$\triangle CTB$

$\tan \sphericalangle ABT = \frac{CT}{TB}$

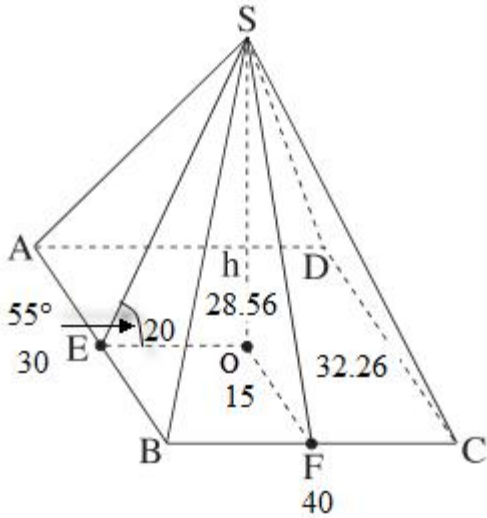
$\tan \sphericalangle ABT = \frac{4}{2}$

$\sphericalangle ABC = 63.43^\circ$

. $\sphericalangle ABC = 63.43^\circ$:

$S_{ABCD} = \frac{(AB + CD) \cdot h}{2} = \frac{(7 + 2) \cdot 4}{2} = 18$

. " 18 :



$FO = \frac{AB}{2} = \frac{30}{2} = 15$
 $EO = \frac{BC}{2} = \frac{40}{2} = 20$

$\triangle SEO$
 $\tan \angle SEO = \frac{h}{EO}$
 $\tan 55^\circ = \frac{h}{20}$
 $20 \tan 55^\circ = h$
 $\boxed{h = 28.56}$

$h = 28.56$

$\angle SFO$, SF

$\triangle SOF$
 $\tan \angle SFO = \frac{h}{OF}$
 $\tan \angle SFO = \frac{28.56}{15}$
 $\boxed{\angle SFO = 62.29^\circ}$

62.29°

,SF, ,SAB

$\triangle SFO$
 $(FO)^2 + h^2 = (SF)^2$
 $15^2 + 28.56^2 = (SF)^2$
 $1040.7 = (SF)^2$
 $SF = 32.26$

$SF = 32.26$

.SF BC SBC

$S_{\triangle SBC} = \frac{BC \cdot SF}{2} = \frac{40 \cdot 32.26}{2} = 645.2$

645.2 SBC

$$N = f_1 + f_2 + f_3 + \dots + f_n = 14 + x + 20 + 2 = 36 + x :$$

"	90	85	80	75	- x
N = 36 + x	2	20	x	14	- f

$$\bar{x} = \frac{x_1 \cdot f_1 + x_2 \cdot f_2 + x_3 \cdot f_3 + \dots + x_n \cdot f_n}{N} :$$

$$81 = \frac{75 \cdot 14 + 80 \cdot x + 85 \cdot 20 + 90 \cdot 2}{36 + x} / (36 + x)$$

$$81(36 + x) = 2930 + 80x$$

$$2916 + 81x = 2930 + 80x$$

$$x = 14$$

. x = 14 :

90	85	80	75	
2	20	14	14	
50	48	28	14	

$$\frac{n+1}{2} = \frac{50+1}{2} = 25.5 : ,50 ,$$

.80 -

$$\frac{80+80}{2} = 80 :$$

. 80 :

$$1 S = \sqrt{\frac{(x_1 - \bar{x})^2 f_1 + (x_2 - \bar{x})^2 f_2 + \dots + (x_n - \bar{x})^2 f_n}{N}}$$

$$S = \sqrt{\frac{(75-81)^2 \cdot 14 + (80-81)^2 \cdot 14 + (85-81)^2 \cdot 20 + (90-81)^2 \cdot 2}{50}}$$

$$S = \sqrt{\frac{504 + 14 + 320 + 162}{50}}$$

$$1 S = \sqrt{\frac{1000}{50}}$$

$$S = \sqrt{20}$$

$$\boxed{S = 4.472}$$

.4.472 :

.1-0.6 = 0.4

,60% = 0.6

P = 0.6 · 0.6 · 0.6 = 0.216

. 0.216

P = 3 · (0.6 · 0.4 · 0.4) = 0.288

. 0.288