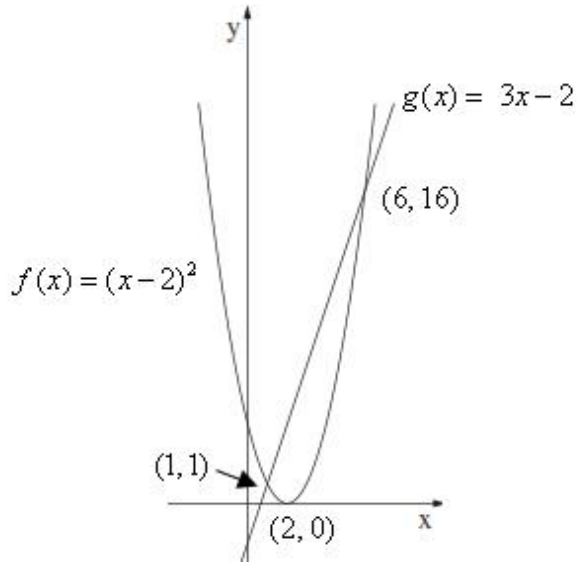


$g(x) = 3x - 2$

$f(x) = (x - 2)^2$



$(x - 2)^2 = 3x - 2$

$(x - 2)(x - 2) = 3x - 2$

$x^2 - 2x - 2x + 4 - 3x + 2 = 0$

$x^2 - 7x + 6 = 0$

$x_{1,2} = \frac{7 \pm 5}{2}$

$x_1 = 6 \rightarrow y = 3 \cdot 6 - 2 = 16 \rightarrow \boxed{(6, 16)}$

$x_1 = 1 \rightarrow y = 3 \cdot 1 - 2 = 1 \rightarrow \boxed{(1, 1)}$

$(1, 1), (6, 16) :$

$f(x) > g(x) .$

$1 -$

$6 -$

$x -$

$x < 1 \quad x > 6 :$

$y = x^2$

$f(x) = (x - 2)^2$

$(2, 0)$

$2$

$x -$

$f(x) = (x - 2)^2$

$0$

$y -$

$(2, 0)$

$(2, 0)$

$f(x) = (x - 2)^2$

$2 -$

$x$

$x \neq 2 :$

$$a_4 = 512 \quad \cdot \quad a_3 = 640 \quad ,$$

$$a_n = a_1 q^{n-1} :$$

$$a_4 = 512$$

$$a_3 = 640$$

$$a_1 q^{4-1} = 512$$

$$a_1 q^{3-1} = 640$$

$$\boxed{a_1 \cdot q^3 = 512}$$

$$\boxed{a_1 \cdot q^2 = 640}$$

$$\boxed{a_1 = \frac{640}{q^2}} :$$

$$a_1$$

:

$$\frac{640}{q^2} \cdot q^3 = 512$$

$$\frac{640 \cdot q^{\cancel{3}1}}{q^{\cancel{2}2}} = 512$$

$$640q = 512 \quad / : 640$$

$$\boxed{q = 0.8}$$

$$a_1 = \frac{640}{q^2} = \frac{640}{0.8^2} = \frac{640}{0.64} = 1000$$

: ,

$$\frac{a_4}{a_3} = q$$

$$\frac{a_4}{a_3} = \frac{512}{640}$$

$$\boxed{q = 0.8}$$

. 1000

0.8

$$a_1 = 1000, \quad q = 0.8, \quad n = 9$$

$$, \quad S_n = \frac{a_1(q^n - 1)}{q - 1}$$

$$S_9 = \frac{1000 \cdot (0.8^9 - 1)}{0.8 - 1}$$

$$S_9 = \frac{-865.78}{-0.2}$$

$$\boxed{S_9 = 4328.91}$$

. 4328.91 :

:

..

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

$$q = \frac{100 - P}{100} \quad ; \quad ( \quad ) \quad - M_t , \quad - M_0$$

$M_t$	$M_0$	$q$	$t$
72°C	90°C	?	10

$$72 = 90 \cdot q^{10} \quad / : 90$$

$$\frac{72}{90} = q^{10}$$

$$0.8 = q^{10}$$

$$q = \sqrt[10]{0.8}$$

$$\boxed{q \approx 0.9779}$$

$$0.9779 = \frac{100 - P}{100} \quad / \cdot 100$$

$$\Leftrightarrow 97.79 = 100 - P$$

$$\Leftrightarrow \boxed{P = 2.21\%}$$

. 2.21% -

$M_t$	$M_0$	$q$	$t$
?	90°C	0.9779	15

$$M_{15} = 90 \cdot 0.9779^{15}$$

$$\boxed{M_{15} = 64.37^\circ\text{C}}$$

. 64.37°C

$M_t$	$M_0$	$q$	$t$
?	90°C	0.9779	60

$$M_{60} = 90 \cdot 0.9779^{60}$$

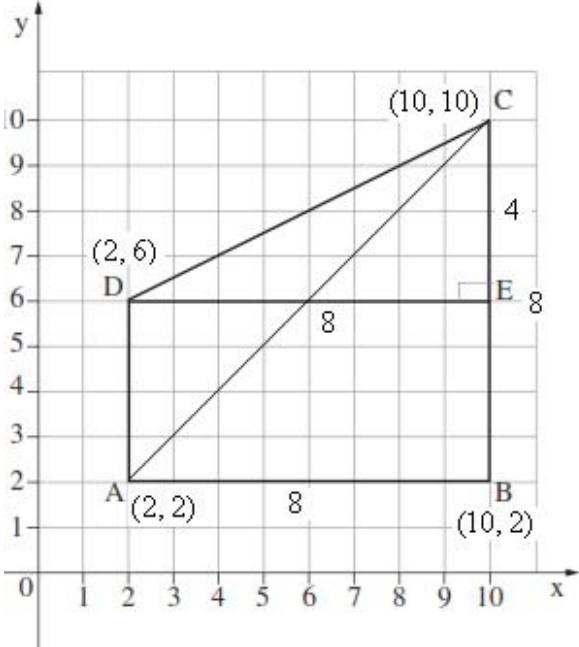
$$\boxed{M_{60} = 23.55^\circ\text{C}}$$

. 23.55°C

. D(2, 6) , C(10,10) , B(10, 2) , A(2, 2)

E(10, 6)

$$DE = x_E - x_D = 10 - 2 = 8$$



∠C

ΔCDE

$$\tan \angle C = \frac{DE}{CE}$$

$$\tan \angle C = \frac{8}{4}$$

$$\boxed{\angle C = 63.43^\circ}$$

. ∠C = 63.43° :

. ∠CAB

, AB - AC

$$BC = y_C - y_B = 10 - 2 = 8$$

$$AB = x_B - x_A = 10 - 2 = 8$$

ΔABC

$$\tan \angle CAB = \frac{BC}{AB}$$

$$\tan \angle CAB = \frac{8}{8}$$

$$\boxed{\angle CAB = 45^\circ}$$

∠ACB = 45° -

. 45° AB - AC :

. ∠DAC

, AD - AC

$$\angle DAC = 90^\circ - 45^\circ = 45^\circ \quad , \angle CAB = 45^\circ , \angle DAB = 90^\circ$$

. 45° AD - AC :

.(ΔABC)

35802

13

$$\frac{40\%}{25\%} = 1.6$$

. 1.6 :

,28

20%

$$.20\% \cdot n = 28$$

n -

$$20\% \cdot n = 28$$

$$\frac{20}{100} \cdot n = 28$$

$$0.2n = 28 \quad / : 0.2$$

$$\boxed{n = 140}$$

140 :

5	4	3	2	
30			30	
140			30	

,140

$$.71 - 70 -$$

,3.5

$$.4 \quad 71 - \quad 3 \quad 70 -$$

4

40

3

40

:

5	4	3	2	
30	40	40	30	

$$.3 \quad 71 -$$

$$70 -$$

$$3 -$$

$$4 -$$

5	4	3	2	
30	39	41	30	
140	110	71	30	

3

:

"

