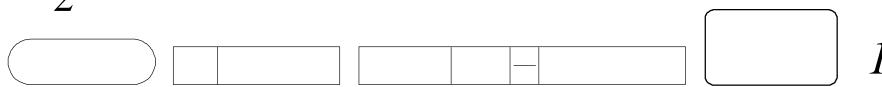
2



3.  $\cos \theta = -\frac{1}{3}$  ,  $\sin \theta \cdot \tan \theta$  ? [2]

 $-\frac{10}{3}$   $-\frac{8}{3}$   $-\frac{5}{3}$ 

- 0 .
- 0 .
- 0 , 0 OMR
- .
- . 2 3 .
- 1.  $\log_3 12 + \log_3 9 \log_3 4$  ? [2 ]

2.  $x = \sqrt{2}$  ,  $\frac{3}{x - \frac{x-1}{x+1}}$  ? [2 ]

 $\sqrt{2} + 1$ 

 $4(\sqrt{2} + 1)$ 

 $2(\sqrt{2} + 1)$ 1)  $5(\sqrt{2} + 1)$ 

1 2 3 4 5

 $3(\sqrt{2} + 1)$ 

- 5. f(x) = x + 2  $x^2 + 1$  7
- 2 , f(x) x 2 ? [2 ]
- - 20 21
  - 23 24
- 22
- 7.  $f(x) = x^2 2x + a$  y
- 가 x , a - 4
- ? [3 ]
- 5 4 3 2 1

6.

$$x^{2} - 4 = a(x - 2)$$

- 가
- a ? [2 ]

- 2 3 4 5 6
- 8.  $a b 7 1 y = a^x$  $y = \log_b x \qquad \qquad 7$
- < > ? [3 ]
  - 7. a > 1 b > 1

  - $\Box$  . 0 < a < 1 0 < b < 1

- 9. P가가 가 1, 가

11.  $f(x) = [x^2]$   $g(x) = [x]^2$ < >

- a, b, c, d

( , [x] x

.) [3 ]

- $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$ P

1

- ? [3 ]
- $\sqrt{2}$  2
- 7.  $f(\sqrt{2}) > g(\sqrt{2})$
- $abla . f(x) = g(x) \qquad x$
- レ, ロ フ, レ, ロ
  - フ, レ フ, レ

 $\sqrt{5}$ 3

- $12. \qquad A(k) \qquad k$ 

  - , k = 2  $2^1 = 2$ ,  $2^2 = 4$ ,  $2^3 = 8$ ,  $2^4 = 16$ ,
- $2^5 = 32, \dots$   $A(2) = \{2, 4, 6, 8\}$  .
- ? [3 ]

? [3 ]

 $\sqrt{2}$ 

 $\sqrt{5}$ 

10. y = f(x) x = 1 , 7

- $\sqrt{3}$   $\sqrt{6}$
- 2

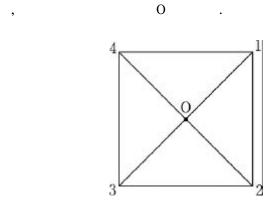
, x x

- 7.  $1 \in A(3)$
- $\vdash$  . A (6)  $\subseteq A$  (3)

- 7 レ ロ
- フ, レ フ, ロ

4

13. 1, 2, 3, 4



O 90°
1 2 , 2 3 , 3 4
, 4 1 .

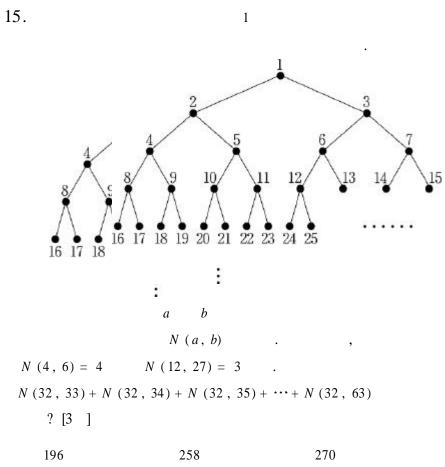
f<sub>1</sub> ,

$$f_{1}(1) = 2, f_{1}(2) = 3, f_{1}(3) = 4, f_{1}(4) = 1$$

. O 90°, 180°, 270°, 360°

$$f_1, f_2, f_3,$$

312



344

レ, レ

フ, ロ

$$\overline{BC} = \frac{1}{2} \overline{AB}$$

$$\begin{array}{c} C \\ \hline CD = \overline{CB} \\ \hline \end{array} \quad D \qquad .$$

E

( ) 
$$AB \overline{AE} = \overline{AD} E$$
 . 
$$E \overline{AB \over AE} = \overline{AE \over EB}$$
 .

$$<$$
  $>$   $ABC$   $\overline{AB} = 2\overline{BC}$ 

$$\overline{AC} = (7h) \overline{BC}$$

$$\overline{AE} = \overline{AD} = \overline{AC} - \overline{CD} = \boxed{()} \overline{BC}$$

$$\overline{EB} = \overline{AB} - \overline{AE} = \boxed{()} \overline{BC}$$

$$\frac{\overline{A B}}{\overline{A E}} = \frac{\overline{A E}}{\overline{E B}}$$

$$\frac{\sqrt{5}+1}{2}$$

$$(3 + \sqrt{5})$$

 $(\sqrt{5} + 1)$ 

( )

$$\sqrt{5}$$
  $(\sqrt{5} - 1)$ 

$$\frac{\sqrt{5}+1}{2} \qquad \frac{\sqrt{5}+1}{2}$$

$$\sqrt{5}$$
 ( $\sqrt{}$ 

$$(\sqrt{5} - 1) \qquad (3 - \sqrt{5})$$

$$(3 - \sqrt{5})$$

2

 $\sqrt{5}$ 

$$\frac{\sqrt{5}+1}{2}$$

18. 
$$x y x^2 + xy + y^2 = 10$$
  
 $x y 7$   $7$  .

6

19.

(가)	$x_1 \qquad x_2$			
( ) x <sub>3</sub>	가	$x_1, x_2, x_3$		
$( ) x_4$	가	$x_1, x_2, x_3, x_4$		
		:		
x 100	가	$x_1, x_2, \dots, x_{100}$		

, x<sub>100</sub> ? [3 ]

194

200

196 202 198

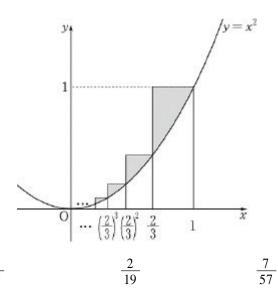
20.

x 가

$$1, \frac{2}{3}, \left(\frac{2}{3}\right)^2, \left(\frac{2}{3}\right)^3, \cdots, \left(\frac{2}{3}\right)^{n-1}, \cdots$$

x y  $y = x^{2}$ 

? [3 ]

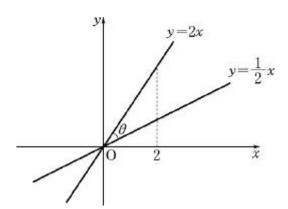


<del>8</del> <del>57</del>

21. 
$$y = 2x$$
  $y = \frac{1}{2}x$  7

 $\cos heta$ 

? [3 ]



22. 10 16

10	0	1	 9	10	11	12	13	14	15
16	0	1	 9	A	В	С	D	Е	F

RGB

16

255

FF 021A

FF, 02, 1A 16 FF, 2, 1A 10 255, 2, 26

255, 2, 26

 $\boldsymbol{R}$  ,  $\boldsymbol{G}$  ,  $\boldsymbol{B}$ 100, 245, 64

? [2 ]

64F 540 64F 840 80F 840 80F 380

40F 580

 $\boldsymbol{R}$  ,  $\boldsymbol{G}$  ,  $\boldsymbol{B}$ 

(25 30)

A B 가

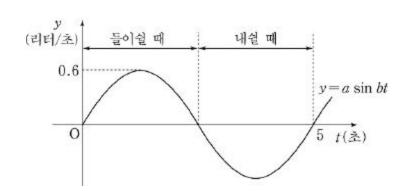
 $A = \begin{pmatrix} 5 & 2 \\ 7 & 3 \end{pmatrix} B$ 

,  $AB^{-1}+BA^{-1}$ 

. [2 ]

23.

$$y$$
 ,  $y = a \sin bt (a, b)$  . ,  $y$ 



가 5

25.

 $\begin{array}{c} 35 \\ 12 \end{array} \qquad \begin{array}{c} 37 \\ 12 \end{array}$ 

$$\frac{31}{11} \qquad \qquad \frac{35}{31}$$

26. 
$$\lim_{x \to -2} \frac{2x+4}{\sqrt{x+11}-3}$$
 . [2]

24.

$$t$$
 ,  $v(t)(m/)$ 

$$v(t) = \begin{cases} t & (0 \le t \le 20) \\ 60 - 2t & (20 \le t \le 40) \end{cases}$$

. 
$$t = 35$$
 , ? ( ,

225 m

250 m

275 m

300 m

325 m

27. 
$$x^{2} + 6x + a = 0$$
  $b + \sqrt{3}i$  ,  $a + b$  .  $i = \sqrt{-1}$  .) [3]

28. 
$$A, B, C$$

$$n(A) = 14, n(B) = 16, n(C) = 19,$$

$$n(A B) = 10, n(A B C) = 5$$

$$, n(C - (A B))$$

$$(, n(X) X .) [3]$$

30.  $\log_2 7$  a,