

CASIO PROGRAM SHEET

program name

△

↔

Y conversion

No. Electricity 1 -

Content calculation formula, etc.

a

R<sub>1</sub>

R<sub>2</sub>

b

c

R<sub>3</sub>

↔

b

R<sub>5</sub>

R<sub>4</sub>

c

R<sub>6</sub>

1) △→ And

$$R_4 = \frac{R_1 \cdot R_2}{R_1 + R_2 + R_3}$$
$$R_5 = \frac{R_2 \cdot R_3}{R_1 + R_2 + R_3}$$
$$R_6 = \frac{R_3 \cdot R_1}{R_1 + R_2 + R_3}$$

2) MD

$$R_1 = \frac{R_4 R_5 + R_5 R_6 + R_6 R_4}{R_5}$$
$$R_2 = R_4 \frac{R_5 + R_5 R_6 + R_6 R_4 R_6}{R_4 R_6}$$
$$R_3 = \frac{R_4 R_5 + R_5 R_6 + R_6 R_4}{R_4}$$

Example topic

< 1 >

R<sub>1</sub> = 12 ( Ω )

R<sub>2</sub> = 47 ( Ω )

R<sub>3</sub> = 82 ( Ω )

< 2 >

R<sub>4</sub> = 100 ( Ω )

R<sub>5</sub> = 150 ( Ω )


R<sub>6</sub> = 220 ( Ω )

Preparation and operation

● Have the computer memorize the program on the right.

▶ (RUN state) press the keys in the order shown below.

procedure	key operation	express	remarks	procedure	key operation	express	remarks
1	<div>P1</div>		△→Y	11	<div>(R<sub>6</sub>)</div> 220 HECE	466.666.....	(R <sub>1</sub> )
2	<div>(R<sub>1</sub>)</div> 12 <div>EXE</div>	12		12	<div>EXE</div>	318.1818181	(R <sub>2</sub> )
3	<div>(R<sub>2</sub>)</div> 47 <div>EXE</div>	47		13	<div>EXE</div>	700	(R <sub>3</sub> )
4	<div>(R<sub>3</sub>)</div> 82 <div>EXE</div>	4	(R <sub>4</sub> )	14			
5	<div>EXE</div>	27.333.....	(R <sub>5</sub> )	15			
6	<div>EXE</div>	6.978723404	(R <sub>6</sub> )	16			
7				17			
8	<div>P2</div>		Y→△	18			
9	<div>(R<sub>4</sub>)</div> 100 <div>EXE</div>	100		19			
10	<div>(R<sub>5</sub>)</div> 150 <div>EXE</div>	150		20			

jump etc. line		(  After step 2, press the keys in the order of the commands below!)	professional gram	Execution details	ステップ
	1	P1			
	2	LBL 1,	HLT , Min 1 , HLT , Min 2 , HLT , Min 3 ,		7
	3		MR 1 , + , MR 2 , + , MR 3 , = , Min 7 ,		14
	4		MR 1 , × , MR 2 , ÷ , MR 7 , = , HLT ,	R <sub>4</sub>	21
	5		MR 2 , × , MR 3 , ÷ , MR 7 , = , HLT ,	R <sub>5</sub>	28
	6		MR 3 , × , MR 1 , ÷ , MR 7 , = , GoTo 1 ,	R <sub>6</sub>	35
	7	P2			
	8	LBL 1,	HLT , Min 4 , HLT , Min 5 , HLT , Min 6 ,		7
	9		MR 4 , × , MR 5 , + , MR 5 , × , MR 6 , + , MR 6 , × , MR 4 ,		18
	10		= , Min 8 ,		20
	11		÷ , MR 5 , = , HLT ,	R <sub>1</sub>	24
	12		MR 8 , ÷ , MR 6 , = , HLT ,	R <sub>2</sub>	29
	13		MR 8 , ÷ , MR 4 , = , GoTo 1 ,	R <sub>3</sub>	34
	14				
	15			Count 71	
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				

summary	I	0		•0	
		1	R <sub>1</sub>	•1	
		2	R <sub>2</sub>	•2	
		3	R <sub>3</sub>	•3	
		4	R <sub>4</sub>	•4	
		5	R <sub>5</sub>	•5	
		6	R <sub>6</sub>	•6	
		7	R <sub>1</sub> +R <sub>2</sub> +R <sub>3</sub>	•7	
		8	R <sub>4</sub> R <sub>5</sub> +R <sub>5</sub> R <sub>6</sub> +R <sub>6</sub> R <sub>4</sub>	•8	
		9		•9	
		F		•F	