

(())

. 0.5

-1

10

. / 2

[0.1]

0.001

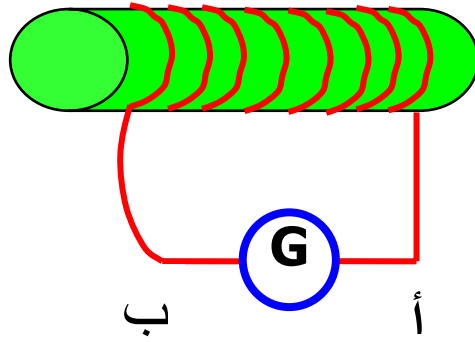
$4 \cdot 10^5$

-2

20

[10-]

-3



-4

:

-5

[-]

.1

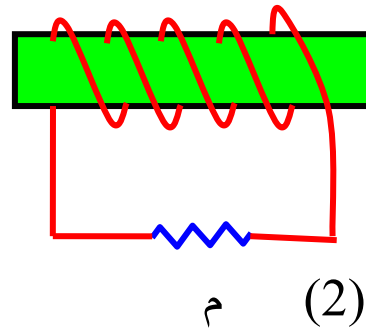
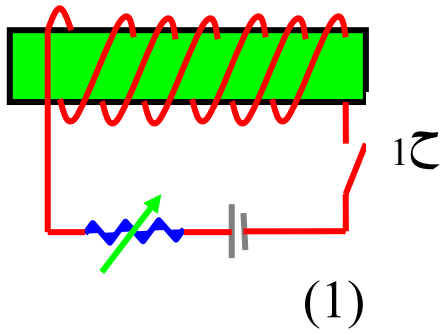
[-]

()

.2

[-]

.3



0.5

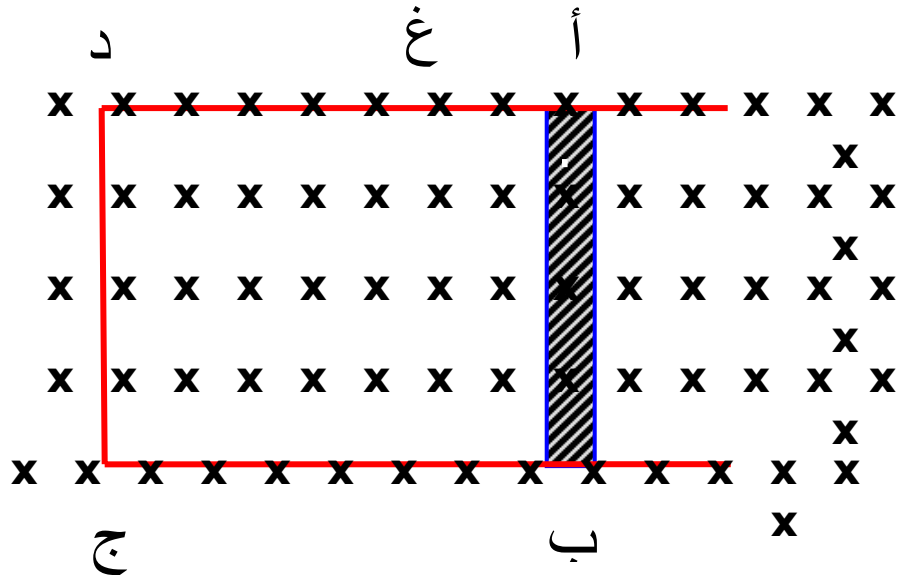
-6

0.5

:

. / 2

. / 4



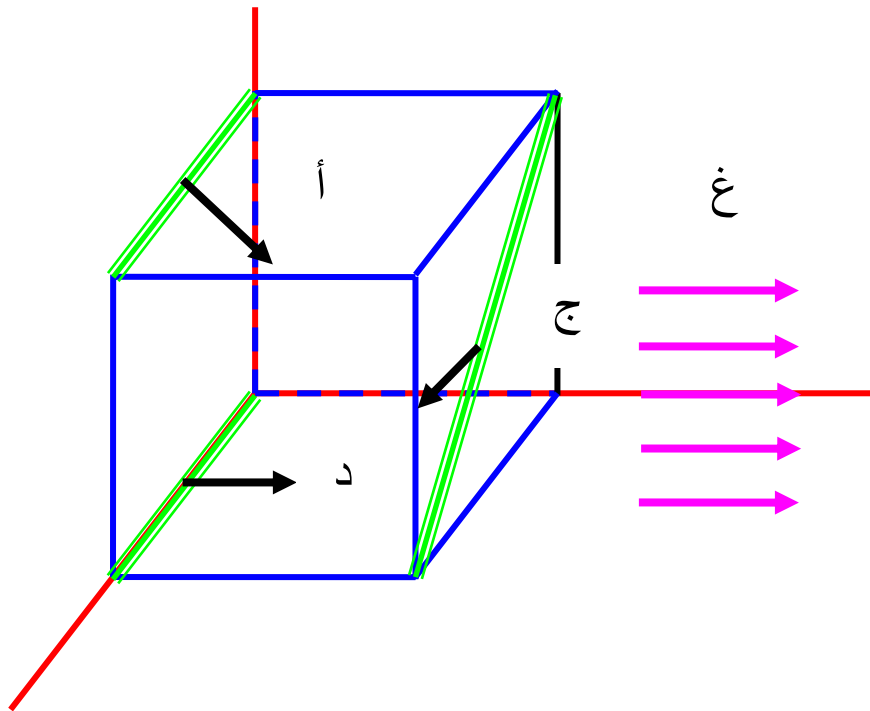
[2/1 - () 1 ()]

0.2

1

-7

... / 50 .+



[0.01 - = 0 = 0.07 - =]

2 20 (1000) -8

* 6 0.02

$5 \cdot 10$

[m 6]

-9

1.6 0.0004 120 -10

$2 \cdot 10^*$

[3-]

: -11

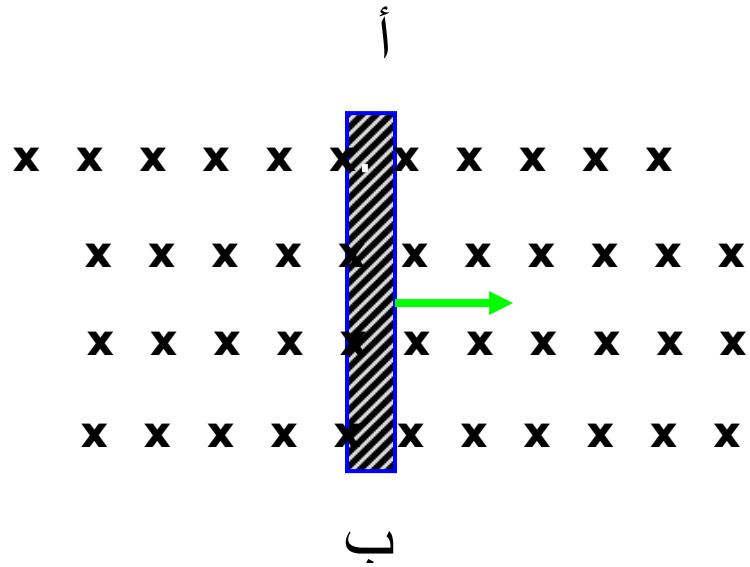
$4 \cdot 10^* 6$ 150 -12

$4 \cdot 10^* 1.2$

[7,5-]

/ 10 20 -13

$^2 / 0.5$

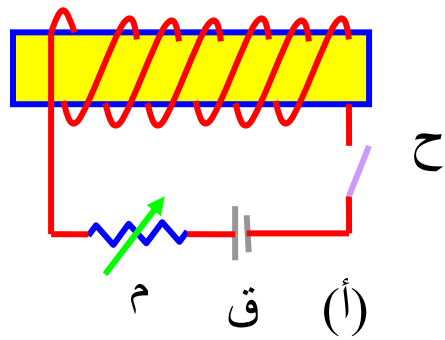
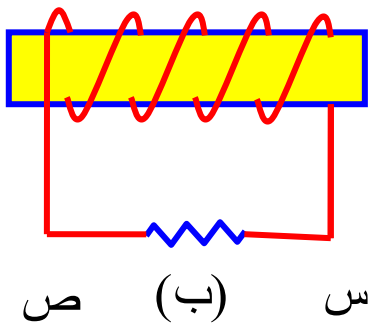


[- + (1(]

- - -14

: ()

()

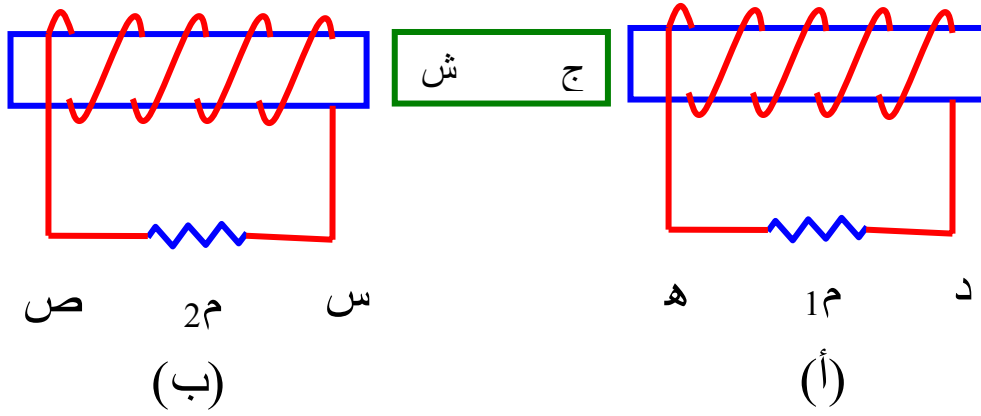


[← (2) ← (1)]

-15

2 1

-16



[← :₂ ← :₁]

0.01

$5 \cdot 10^{-5}$

-17

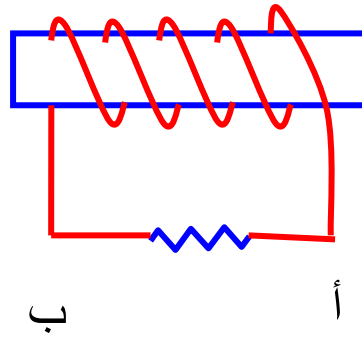
40

[0,2]

-18

!

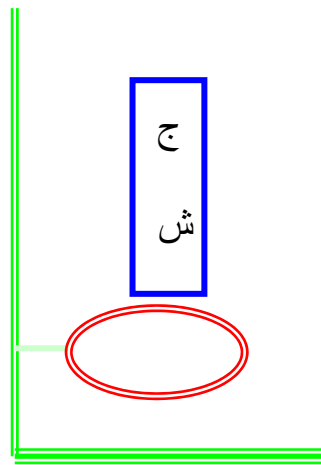
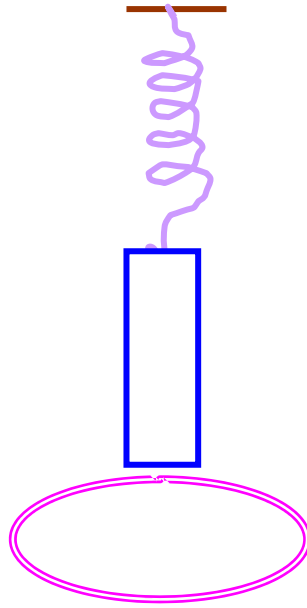
نقطة ج



[←]

-19

-20

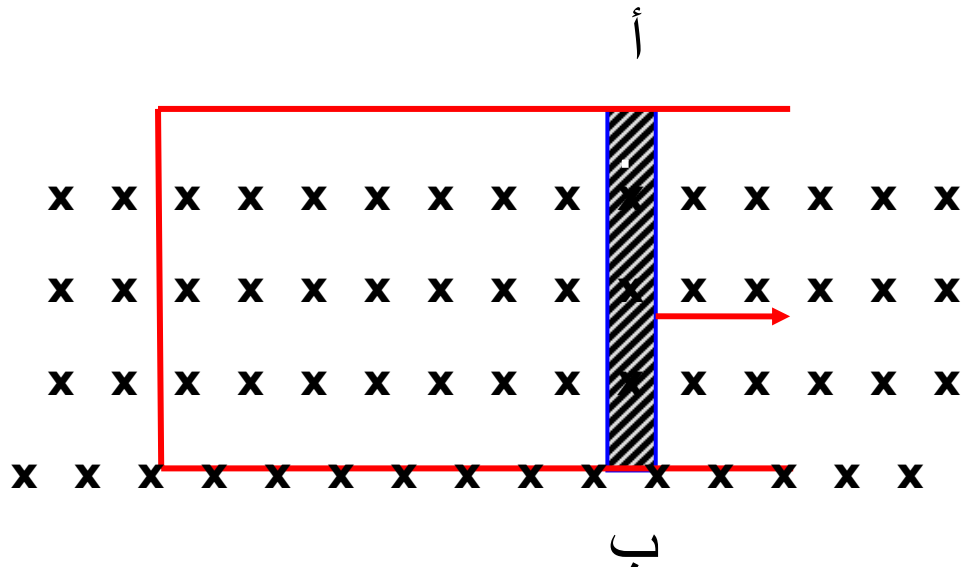


-21

.1

.2

.3



-22

...

-23

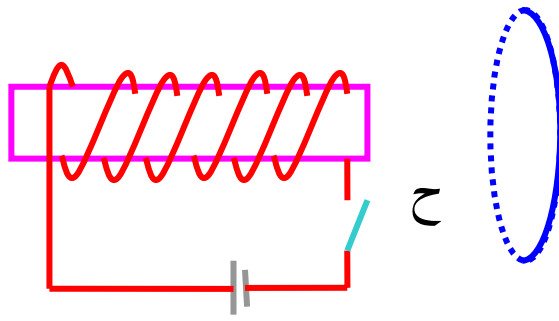
-24

:

.1

.2

.3



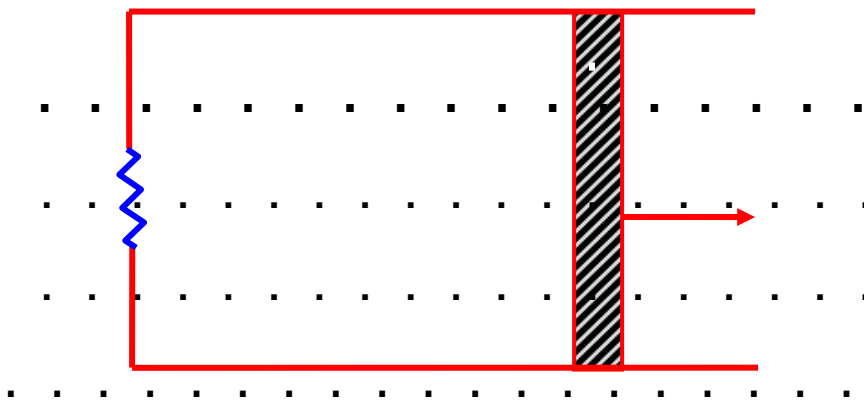
-25

-26

(2)

(1)

-27



-28

$$0 = \frac{50}{10 \times 5} - 29$$

$$\dots \cdot 0.5 =$$

$$\cdot 0.25$$

[0,5]

$$^2 8 - 30$$

$$\cdot 1 \quad 2.5 \quad 0.5$$

$\Omega 2$

[mA 0,8]

$$.^2 0.2 \quad 1.6 - 31$$

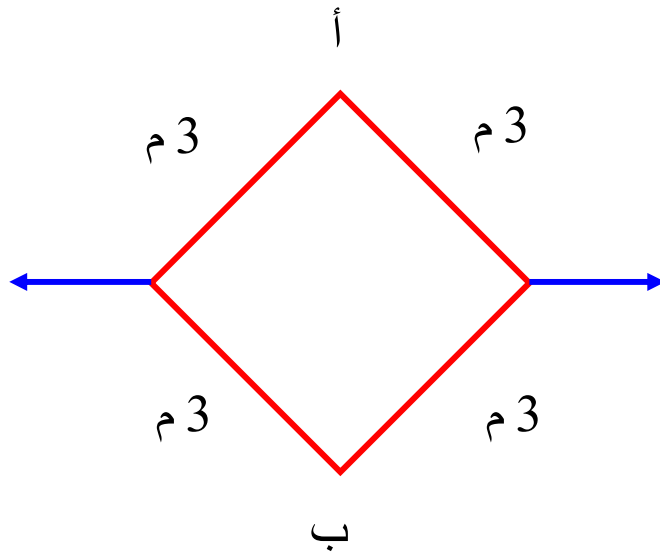
$$\text{ms } 20 \quad \Omega 20 \quad 200$$

[A 160]

$$\Omega 10 - 32$$

$$\cdot$$

$$0.1 \quad 3$$



[A 0,121]

		. 0.1		50		-33
. . .	0.2	0.6	0			

[4,71]

				0.5		-34
. . .	. 0.1					0.4

[1]

				50		-35
200	.	° 30				

. m 80 . . . 0.4 μ600 μ

[271,9]

0.5 -36

0.1 . 0.4

. . .

[6,28-]

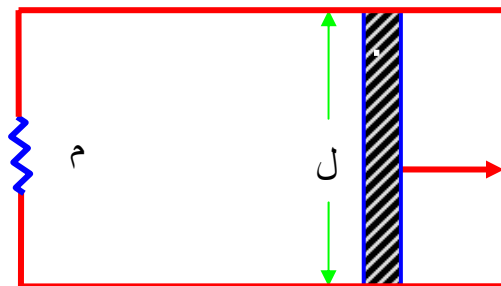
/ 300 60 747 -37

50 ° 58 Phoemix
 . μ

[0,763]

. 2.5 = : 1.2 = Ω 6 = -38

A 0.5



[/ 0.8]

5

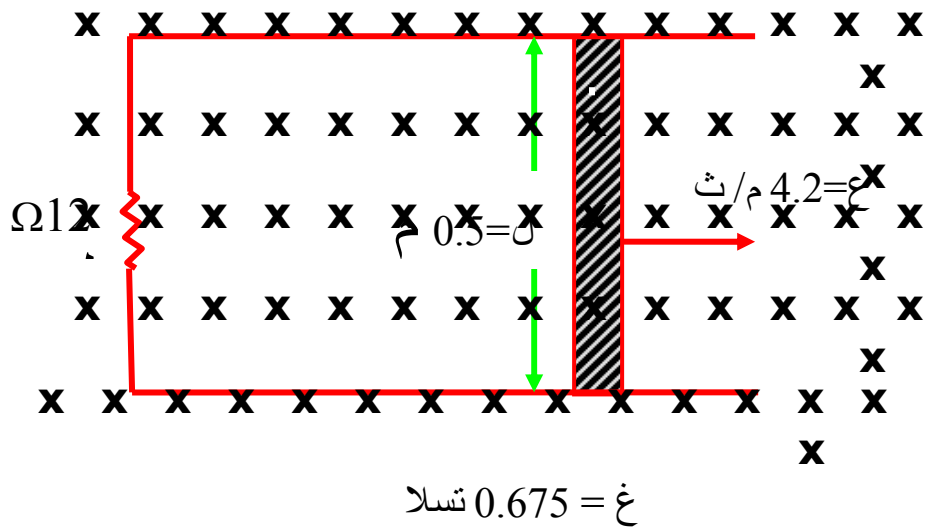
$\mu 40$

-39

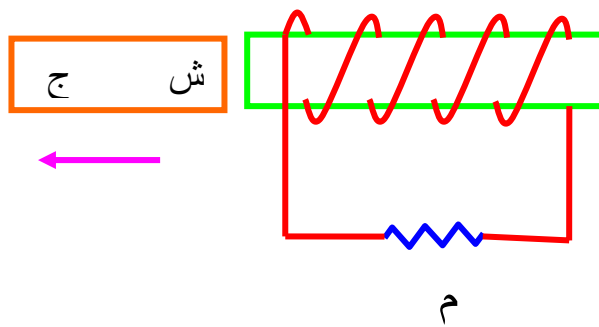
. / 10

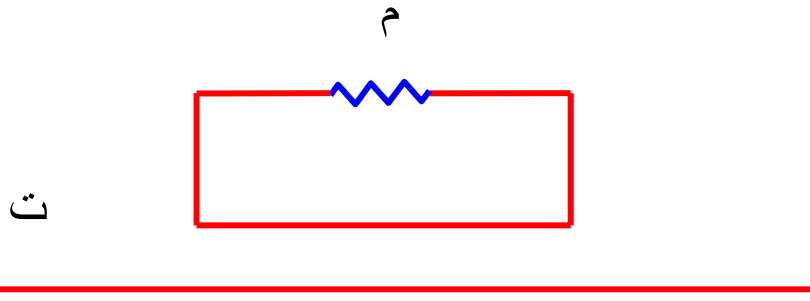
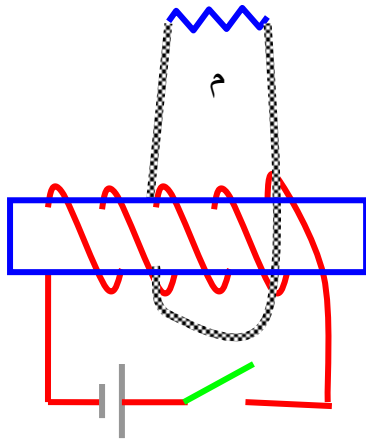
[m 2]

-40



-41





[() () () ()]

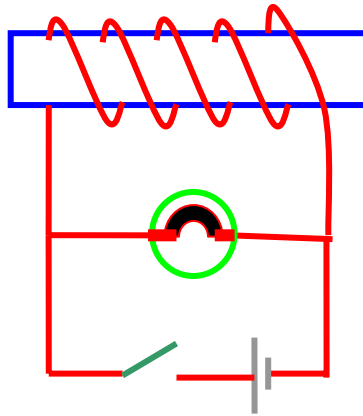
_____ :

$$\frac{ن. \phi}{ت} ، \frac{ق}{\Delta / ز} \quad -42$$

.A1 0.04 100 -43

[H 4]

: -44



: -45

-46

: -47

: -48

	.A0.5		H 2	-54
		ms10
[100]				
	. 2	μ H 125	4	-55
[200]				
	1.3	70	()	-56
			.	. 60
[μ H 1.36]				
		0.25	4	-57
				mH0.06
[/ 78]				
	300	mH 7.2		-58
				. mA 10
[$10^{-6} * 0.24$]				
. 12	15	450	mA 40	-59
			:	
	.2	.		.1

.4

.3

[1 2 (4) μ H375 (3) mWb33.3 (2) μ 188 (1)]

A2.8 400 m36 . . . -60

. / A 12

[μ Wb21]

/ 22 . 4 mH0.388 -61

[10.9]

.² 5 20 -62

. μ 200 . . . / A 0.625

[/ 1296]

B A -63

:) .B A . B A

.(

[$\frac{1}{2}$]

...

-68

()

:

[H 0.1 = Ω3 = 10 =]

[A 3,3 . /A 100 .]

100

Ω30

H 15

-69

[/A 6.66]

⋮ _____

-70

.A 0.1

H2

-71

[0.01]

:

12

Ω 10

H 8

-72

[5.76 (3) 12 (2) /A 1.5 (1)]

: . 40 Ω20 H 0.05 -73

. /A 200

. /A 200

[0.1 (3) A 1.5 (2) /A 800 (1)]

.() H 3 () -74

6

. . .

: . 1.5

[3.375 (2) Ω 4 (1)]

: . Ω8 H 2 6 -75

A 0.5 =

[0.56 (3) /A 1 (2) /A 3 (1)]

: . 10 Ω 5 H 4 -76

[8 (3) /A 2 (2) /A 2.5 (1)]

: . 20 Ω5 H2 -77
 .2 .1
 .4 A 2 = .3

[16 (4) /A 5 (3) A 4 (2) /A 10 (1)]

: . 10 H10 200 -78
 .1
 .2
 .3
 .4

[mJ 12.5 (4) /A 0.5 (3) / A1 (2) /A 0.05 (1)]

24 . Ω 12 H 3 -79
 : .
 . / A 5 .1

.A 1.5 .2

.3

[6 (3) /A 2 (2) 15 (1)]

Ω 4 -80

: . 0.25 A 0.5

.1

. A 0.3 .2

[/ A 0.4 (2) H 2 (1)]

.() 2 () () -81

.[μ_o]

A 1.75 μ 200 -82

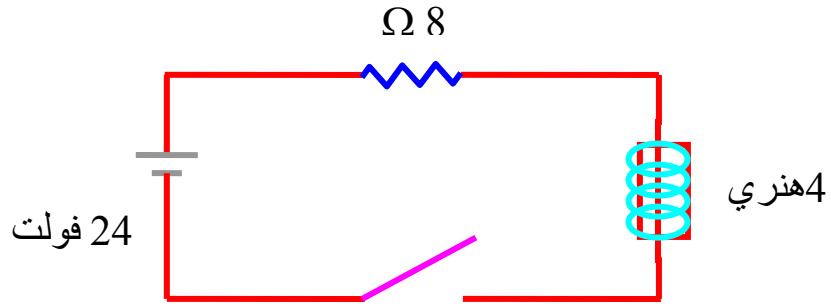
$4- 10 * 3.7$

[mJ 65]

. 1.2 8 68 -83

[μ J 2.44] A 0.77

-84



[18]

H 10 Ω 5 10 -85

:

.1

.2

.3

.4

[J 20 (4) 0 (3) W20 (2) W20 (1)]

Ω30 H 0.8 500 -86

[27.8]

Ω 7 H 0.6 15 -87

[0.34]

0.85

$\mu H 200 = 2$ $\mu H 85 = 1$ -88

. A

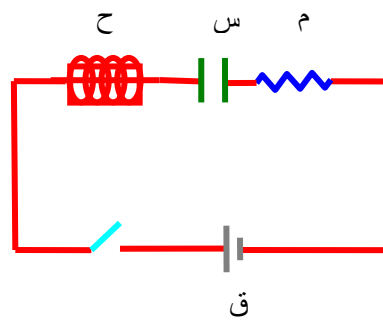
[$\mu J 72.3 = 2$ $\mu J 30.7 = 1$]

_____ :

-89

_____ :

.4 .3 .2 .1



100

$\Omega^6 10$

$\mu F 10$ -90

_____ :

.1

.2

.3

.4

[0(4) $\mu A 50$ (3) A^{4-10} (2) C^{3-10} (1)]

. F⁶⁻¹⁰ H 4 -91

[Hz 80]

-92

: . 8 Ω10 μF 4 -93

.1

μH 9 .2

. / ⁸ 10 * 3

[km 11.3 () μC 32 ()]

10000 50 2 100 -94

: . 6

.1

.2

. Hz⁵ 10 .3

[pF 1 () /A 2.4 () H 2.5 ()]

. 300 -95

. nH 250

[F⁷⁻¹⁰]

. μ F 3

-96

Hz $\frac{500}{\pi}$

[H $\frac{1}{3}$]

.

: -97

Hz 120

-98

. μ F 8

[H 0.22]

μ H 1.05 -99

MHz 6.3

.

[nF 0.61]

:_____:

.

-100

.

1

-101

.

.

2

[7/ 2 1 μ ol]

m 96 . . . -102

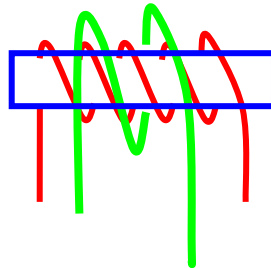
. /A 1.2

[mH 80]

$2^{3-10} * 8.8$

50 -103

. / 1000



الملف الثاني

[μ H 553]

_____ :

. 400 100 -104

. 55

[220]

200 kW 4 %85 -105

: 1 : 5

.3 .2 .1

[A 3.4 (3) k 1 (2) kW 3.4 (1)]

-106

: -107

210 . . . 9 -108

[70 : 3]

: -109

%100

-
-
-

100 kW 5 %90 -110

: 3:1 =₁ ;₂

.3 .2 .1

[A 15 (3) 300 (2) W 4500 (1)]

200 %80 100 : 1 = ₁ ;₂ -111

. A 0.5

[A 40 2]

6.28 ² 4 %100 -112

/ ⁴-10 A 4 1000

: 500

.21

.3

[A 8 (3 120 (2 160 (1]

200 kW 3 %85 -113

: 1 : 4 =₁ :₂ .

.3 .2 .1

[A 3.2 (3 800 (2 W 2550 (1]

W 20 8 -114

50 %80 200

:

.2 .1

[A 0.125 (2) 2 (1)]

%90 220 -115

.A 2 4:1

.2 .1

.3

[A 7.2 (3) 55 (2) (1)]

24

-116

250

A 3

[A 0.288]

(W 70 24)

-117

: A 0.35

240

.2

.1

[% 83.3 (2) A 2.92 (1)]

kW 4

%85

-118

1:5

2000

:

.2

.1

.3

[A 3.4 (3) k 1 (2 kW 3.4 (1)

50

400

-119

120

[15]

1 :13

-120

A 0.35

120

:

.3

.2

.1

[W 42 (3 A 4.55 (2 9.23 (1]

110

2200

-121

.

80

()

A 1.5

()

A 1.2

%95

()

[A 25,3 (A30 (1600 (]

⋮ _____ ⋮

160

200

² 2-10

-122

. 0.1

.

[32]

[A 11.3 (136 (]

100 (20 * 20) -128

. ⁵-10 * 2 () / 1500

[m 12.6]

°180 0.2 . 0.5 25 -129

. . . μ 50

[m 15,4]

/ 60 ² 0,1 -130

1000 . 0,2

[7540]

/ 200 -131

8 30 A 15

. / π4 .

. . .

[m 28.6]

Hz 60 (10 × 10)

-132

: 0.8

.

.Ω 1

.

.

.

[W 9.1 () A 3 () 3 ()]