TRIBUTOS

(13)

$C = 4\mu F$

$q = 80\mu C$
$V = 20v$

B

$20V$ $+ \uparrow q$

$q \downarrow + | 20V$

$20V$

q

A

$C = 4\mu F$

TEOREMA DE LA TRAYECTORIA

2)

$\frac{q}{+ | -} \cdot B$

$20V$

$20V \uparrow q$

A

$V_A + 20 - 20 = V_B$

$\boxed{V_A - V_B = 0}$

1)

$$\sum V = \sum \frac{q}{C}$$

$\underbrace{}_{BATERÍAS} \quad \underbrace{}_{CONDENSADOR}$

$20 + 20 = \frac{q}{4} + \frac{q}{4}$

$\boxed{q = 80\mu C}$

SERIE:

$\frac{3C}{3} = C$

(14)

$20C$ $\quad 2C \quad$ $\boxed{3C}$

A $-|\vdash$ $-|\vdash$ $-|\vdash$

$4C =$ $\quad C = \quad = C$

B $-$ $\quad 2C \quad$ $\boxed{3C}$

$-|\vdash$ $= \boxed{3C}$

$20C$ $\quad 2C$

A $-|\vdash$ $-|\vdash$

$4C =$ C $\boxed{C = \quad = C}$

B $-$

$2C$

$20C$ $\quad \boxed{2C}$

A $-|\vdash$ $-|\vdash$

$4C =$ $= C$ $\boxed{= 2C}$

C

B $-$

$2C$

$20C$

A $-|\vdash$

$4C =$ $\boxed{C}$ $\boxed{C}$

C

B $-$

$2C$

$V =$

42

MITAD

Left board:

A — 20C — 2C
4C — C — C — (2C)
B — 2C

20C
4C — C
2C

Middle board:

A — 20C
4C — 2C
B — (2C)

A — 20C
4C — C
B

A — 20C
$Q = 1200mF$ — 5C
B — $Q = 1200mF$

$$\frac{20C \cdot 5C}{25C} = 4C$$

A — 20C
V = 3v
B
4C = 40mF
$Q = 1200mF$

Right board:

10v   5v   20v   8v
q
A — + | − + | − + | − + | − · B
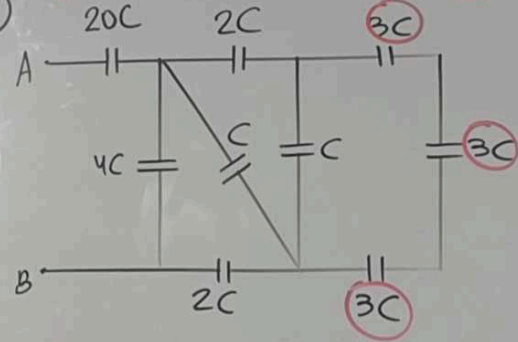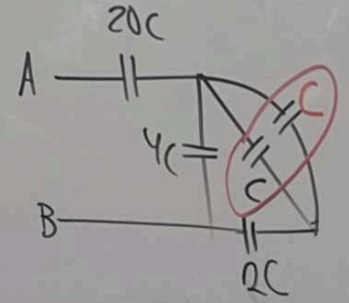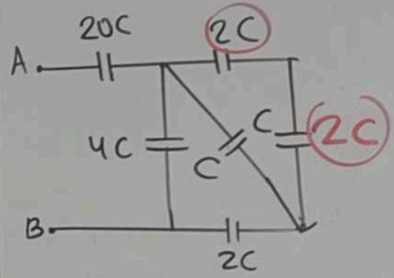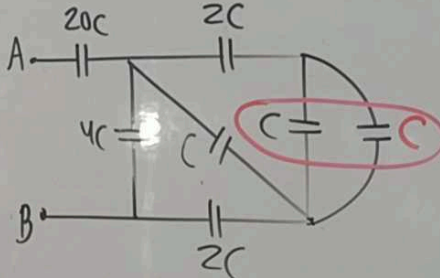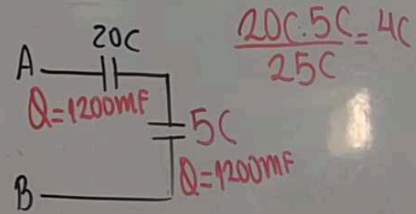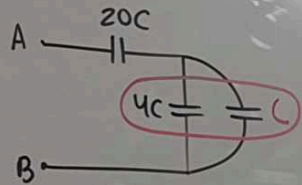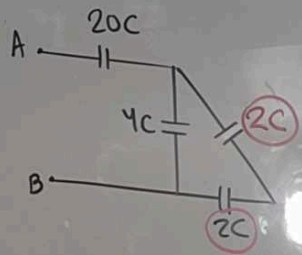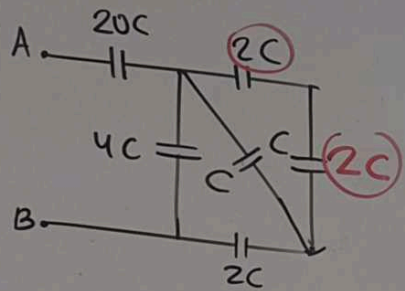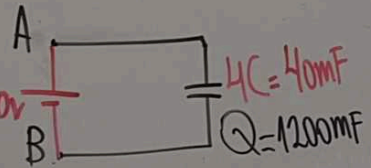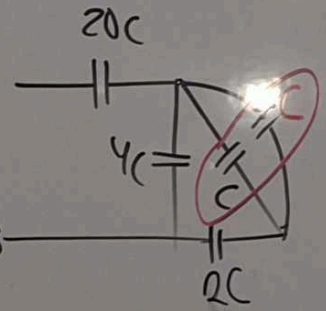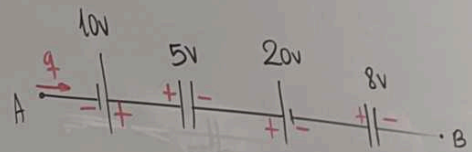
$$V_A + 10 - 5 - 20 - 8 = V_B$$
$$V_A - V_B = 23v$$

②

X ¿cómo llamar?:
AMA Sua: LADRÓN Y NO RAYAR
Quella: OCIOSO
Llulla: MENTIROSO
Si/ex: ASESINO
Macha: GAY

$$C_1 > C_2 > C_3 > C_4$$
$$10 \quad 6 \quad 4 \quad 3$$

(38)

$$U = \frac{1}{2} C \cdot V^2$$

$C_1 = 10$, $C_2 = 6$, $C_3 = 4$, $C_4 = 3$

(40)

$$x + y = d - b$$

$$C_1 = \frac{\varepsilon_0 \cdot A}{x}$$

$$C_2 = \frac{\varepsilon_0 A}{b} \cdot k$$

$$C_3 = \frac{\varepsilon_0 \cdot A}{y}$$
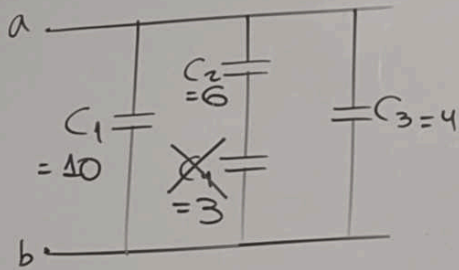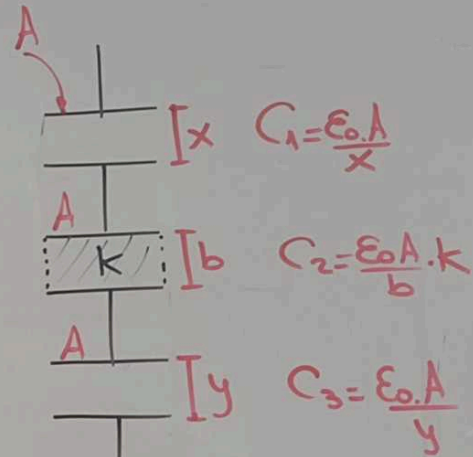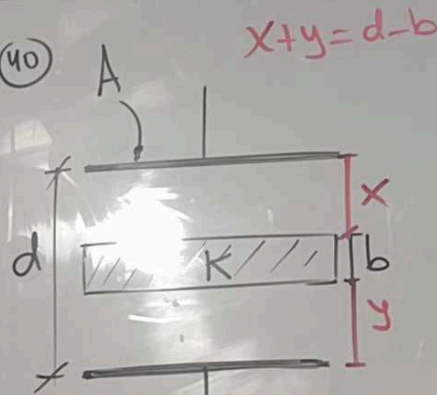
$$\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} = \frac{1}{C_{eq}}$$

$$\frac{x}{\varepsilon_0 A} + \frac{b}{\varepsilon_0 A k} + \frac{y}{\varepsilon_0 A} = \frac{1}{C_{eq}}$$

$$\frac{(d-b)}{\varepsilon_0 A} + \frac{b}{\varepsilon_0 A k} = \frac{1}{C_{eq}}$$
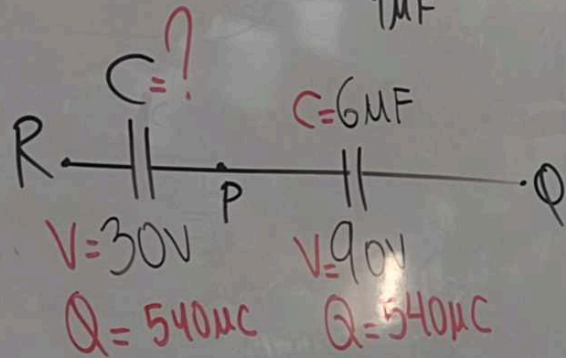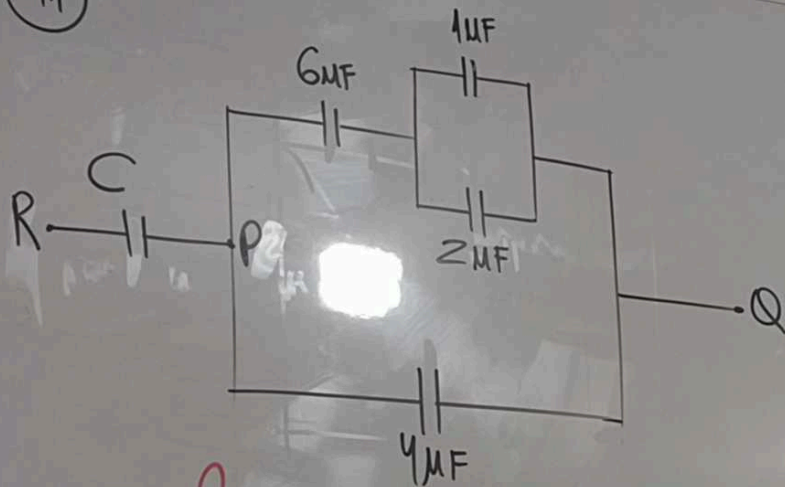
$$\frac{k(d-b) + b}{\varepsilon_0 A k} = \frac{1}{C_{eq}}$$

$$\boxed{C_{eq} = \frac{\varepsilon_0 A k}{k(d-b) + b}}$$
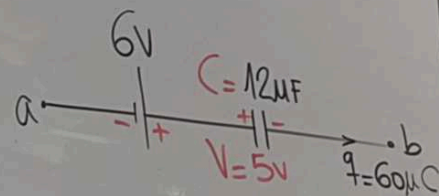
ROBUSTOS: A

NO RAYAR :(6K)

(41)

6μF

1μF

R — C — P

2μF

4μF

Q

$C = ?$

$C = 6μF$

R —||— P —||— Q

$V = 30V$ $V = 90V$

$Q = 540μC$ $Q = 540μC$

$C = \dfrac{Q}{V} = \dfrac{540}{30} = 18μF$

42

MITAD

(46)

6V

$C = 12μF$

a —|+— +||— • b

$V = 5v$ $q = 60μC$
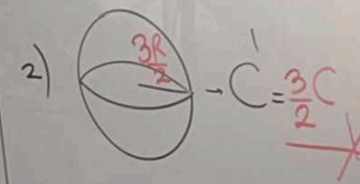
$V_a + 6 - 5 = V_b$

$V_a - V_b = -1v$

(42)

1)

R → $C = \dfrac{R}{k_e}$

2)

$\dfrac{3R}{2}$ → $C = \dfrac{3C}{2}$

②

TRIBUTOS

(TOSCANO)

(41)
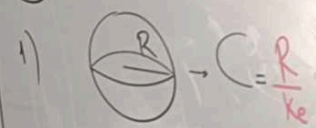
(35)
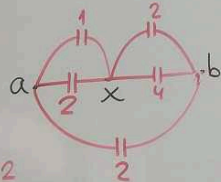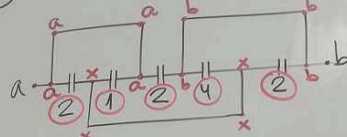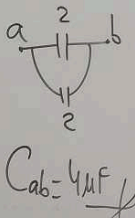

$$\frac{3\times6}{3+6}=2$$
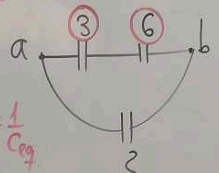
$$\frac{1}{3}+\frac{1}{6}=\frac{1}{C_{eq}}$$

$$C_{eq}=2$$

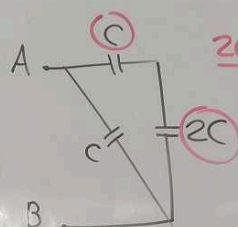$$C_{ab}=4\mu F$$

(52)

$C=10\mu F\times 5 = 50\mu F$

$Q=100\mu C$
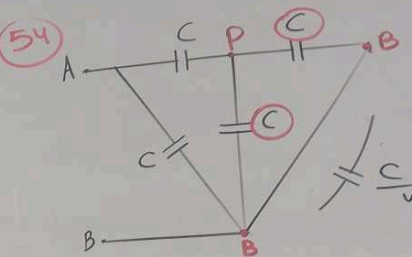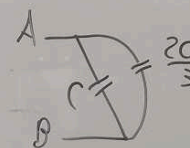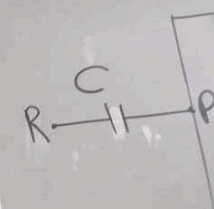
$$V=\frac{Q}{C}$$

$$V=\frac{100}{50}$$

$$V=2v$$

(54)

$$\frac{2C\cdot C}{3C}=\frac{2C}{3}$$
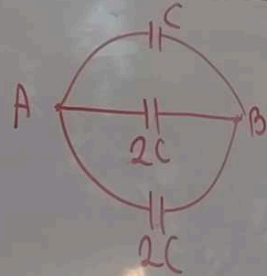
$$C_{AB}=\frac{5C}{3}=\frac{5(3)}{3}=5\mu F$$

(41)
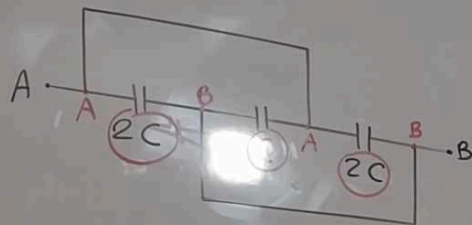
R ⊣⊢ C P

$C=$

R ⊣⊢

$V=30$

$Q=$

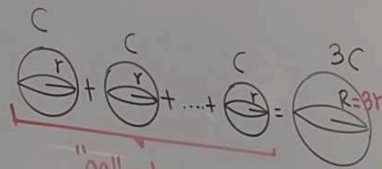ROBUSTUS: A
NM RAYAR (OK)

(19)

$$C_{AB} = 5C$$

(50)

"n" gotas
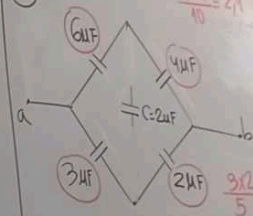
$$\frac{4}{3}\pi r^3 \times n = \frac{4}{3}\pi (3r)^3$$
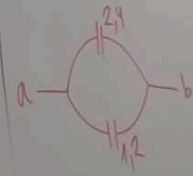
$$r^3 \cdot n = 27 r^3$$

$$n = 27$$

(45)
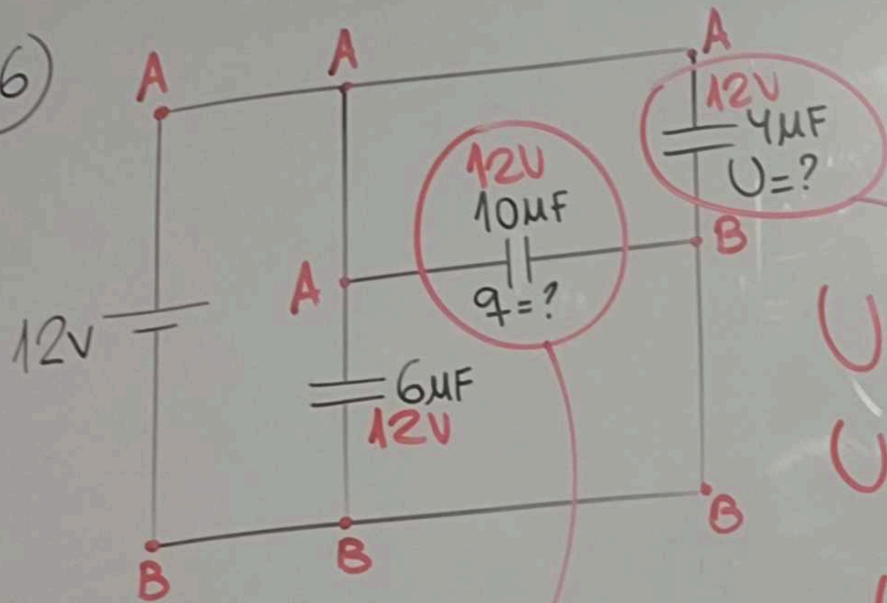
$$\frac{6\times4}{10} = 2.4$$

$$\frac{3\times2}{5} = 1.2$$

$$C_{ab} = 3\,\mu F$$

$$\frac{5(3)}{3} = 5\mu F$$

(36)

A   A   A

12V

4MF

U=?

12V
10MF

A   B

q=?

12V

6MF
12V

B   B   B

$U = \frac{1}{2} C \cdot V^2$

$U = \frac{1}{2} \cdot 4 (12)^2$

$U = 288 \mu J$ ✗

A .

B

$q = C \cdot V$

$q = 120 \mu C$

19)

A •———| |———•B (2C)
with 2C, C, 2C arrangement

C , A —| |— B over 2C, and 2C below

$$C_{AB} = 5C$$

---

50)

C + C + ... + C = $3C$
(r) (r) (r) (R=3r)
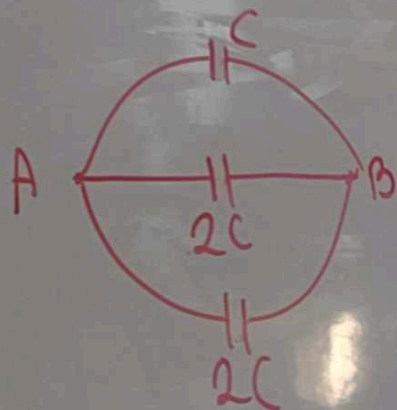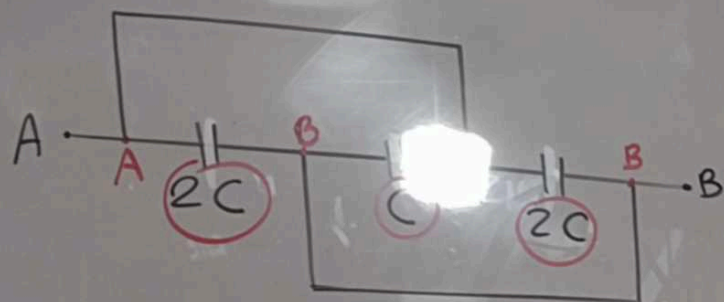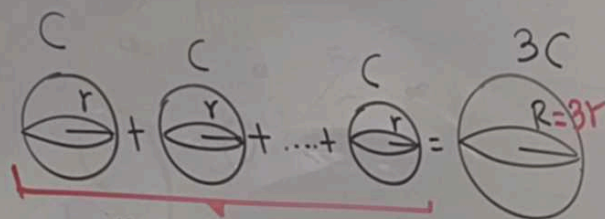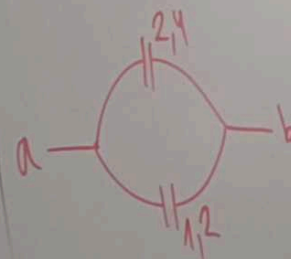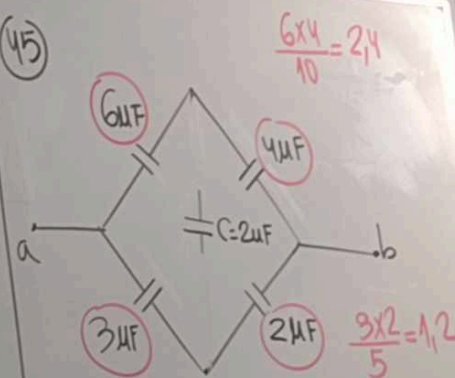
"n" gotas

$$\frac{4}{3}\pi r^3 \qquad \frac{4}{3}\pi(3r)^3$$

$$r^3 \cdot n = 27\, r^3$$

$$n = 27$$

---

45)

$$\frac{6\times 4}{10} = 2,4$$
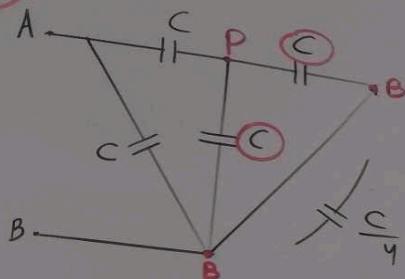

$6\mu F$ $4\mu F$
$C = 2\mu F$
a •   • b
$3\mu F$ $2\mu F$ $\frac{3\times 2}{5} = 1,2$

a —| |— b (2,4 top, 1,2 bottom)

$$C_{ab} = 3,6\mu F$$

---

42   MITAD

(54)

A —|C|— P ©C B

C ═ ©C

B

B

A —©C—

C —| ©2C

$$\frac{2C \cdot C}{3C} = \frac{2C}{3}$$

A —|C|— ═ $\frac{2C}{3}$

C —|

B

$$C_{AB} = \frac{5C}{3} = \frac{5(3)}{3} = 5\mu F \;\times$$

(41)

R —|C|— P

6μF   1μF

2μF

4μF

.Q

$$C = ?$$

R —||— P —| C=6μF |— .Q

V=30V   V=10V
Q=540μC   Q=540μC

$$C = \frac{Q}{V} = \frac{540}{30} = 18\mu F \;\times$$

(46)

6V
a —|⊢— C=12μF —| b
V=5V   q=60μC

$$V_a + 6 - 5 = V_b$$

$$V_a - V_b = -1v \;\times$$

(42)

1) (R) → $C = \frac{R}{k_e}$

2) $\left(\frac{3R}{2}\right)$ → $C = \frac{3C}{2} \;\times$

X ¿convencional?

4M1 — Sus LADRÓN Y
— Quella OSIOSO NO ROBAR
— LUCIA MENTIROSO
— SI REY SUEÑO
— MUCHA GAY