



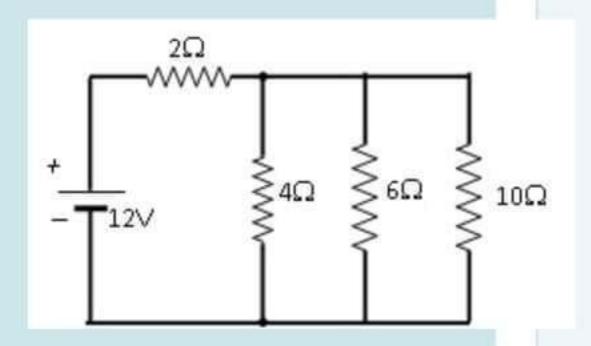








Three resistors connected in parallel have individual values of 4.0, 6.0 and 10.0  $\Omega$ , respectively (على الترتيب). If this combination is connected with a 12 V battery and a 2.0  $\Omega$  resistor as shown in the figure. What is the current (in A) in the 10  $\Omega$  resistor?



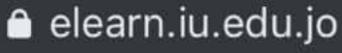
Select one:

oa. 0.99











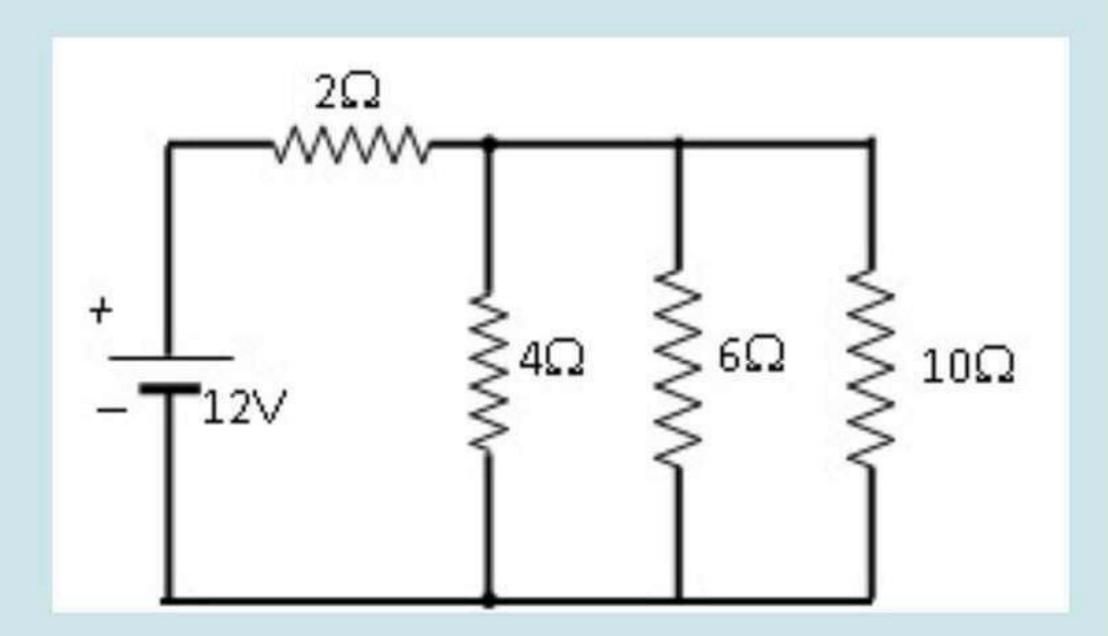








Three resistors connected in parallel have individual values of 4.0, 6.0 and 10.0  $\Omega$ , respectively (الترتيب). If this combination is connected with a 12 V battery and a 2.0  $\Omega$  resistor as shown in the figure. What is the current (in A) in the 4  $\Omega$  resistor?



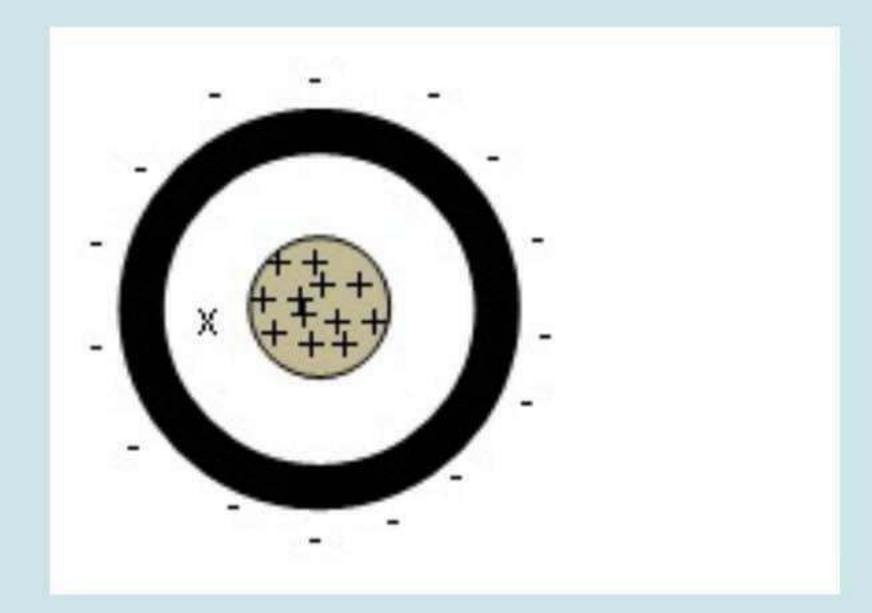
- o a. 16
- o b. 0.99
- oc. 1.48
- od. 0.59
- o e. 0.54

# Khãlëd Ãkrâm To your group عجقتني

tric spricional silenis q - 10 ile,

then the magnitude of the electric field (in N/C) at point x which is 0.3 m from the center is:

Note:  $k_e = 9 \times 10^9 \text{ N.m}^2/\text{C}^2$ 



- o a. 500
- o b. 55.6
- oc. 111.1
- od. 1500
- o e. Zero



### replied in Physics 2 . Dr. Ihsan Erikat > General 6 + لما

الموقع معلق

### Question 8

Not yet answered

Marked out of 1

▼ Flag question

Two identical charges repel each other with a force of 18 N and distance between them is d.

If both charges are doubled and the distance between the charges becomes d/4, the force will be

### Select one:

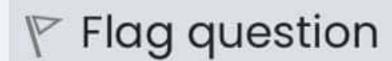
- o a. 1152 N
- O b. 9 N
- O c. 18 N
- od. 288 N
- e. 4.5 N

Question 9

### فيزياء 2 @ Ghadeer Albayaydah

راح ١٠ دقايق من الامتحات

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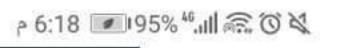
Four capacitors are connected as shown in the figure below. What is the charge Q on the 3.0µF capacitor?

Select one:

- 40 μC
- 120 μC
- 80 μC
- 60 μC

Question 5

Not yet answered















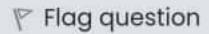


181

Question 9

Not yet answered

Marked out of 1



increasing the radius of a sphere will increase

- 🌀 a. charge
- b. capacitance
- c. potential
- d. NONE

Question 10











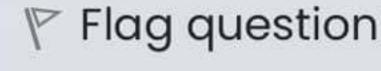




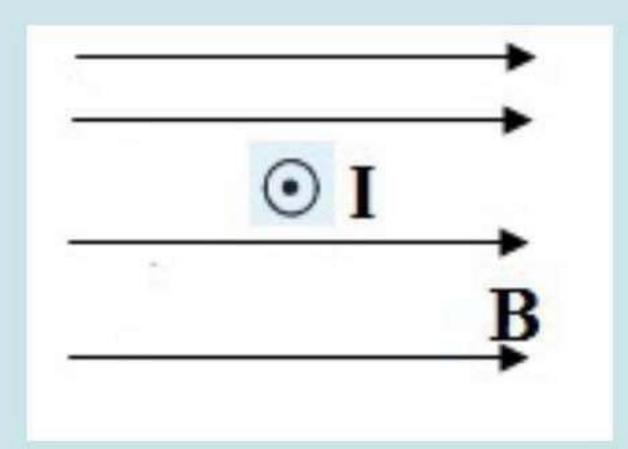


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Marked out of 1



For the wire with a current lying in the magnetic field shown in the Figure, the direction of the force on the wire is:



Select one:

- a. to the left
- b. downwards
- c. to the right
- d. upwards

Question 8

Not yet answered





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Flag question

The force on particle travelling at 10<sup>6</sup> m/s in a magnetic field of 10µT is 1.6 × 10<sup>-17</sup> N. The particle has a charge of: in C (angle 90)

#### Select one:

- a. 1.6 x 10<sup>-17</sup>
- b. 1.6x10<sup>-19</sup>
- c. l.6 x10<sup>-18</sup>
- d. 1.6 x10<sup>-16</sup>

Question 9











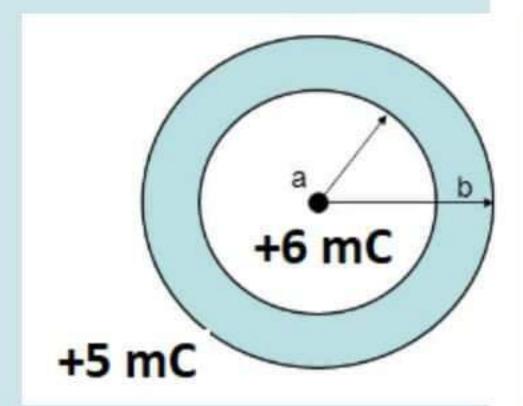






A positive charge Q=6 mC is placed inside a spherical conducting shell with inner radius **a** and outer radius **b** which has an extra charge of 5 mC placed on it. When all motion of charges ends, then the charges on the inner and outer surfaces of the shell

are













the charge on the electron.

Question 5

Not yet answered

Marked out of 1

Flag question

The Coulomb force between two charges can be attractive or repulsive.

Select one:

- True
- False

Next page

Previous activity

◀ Final lecture







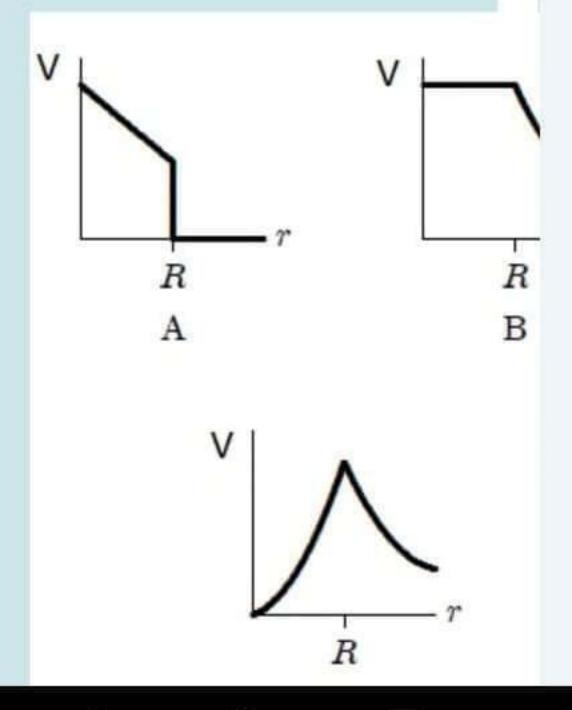


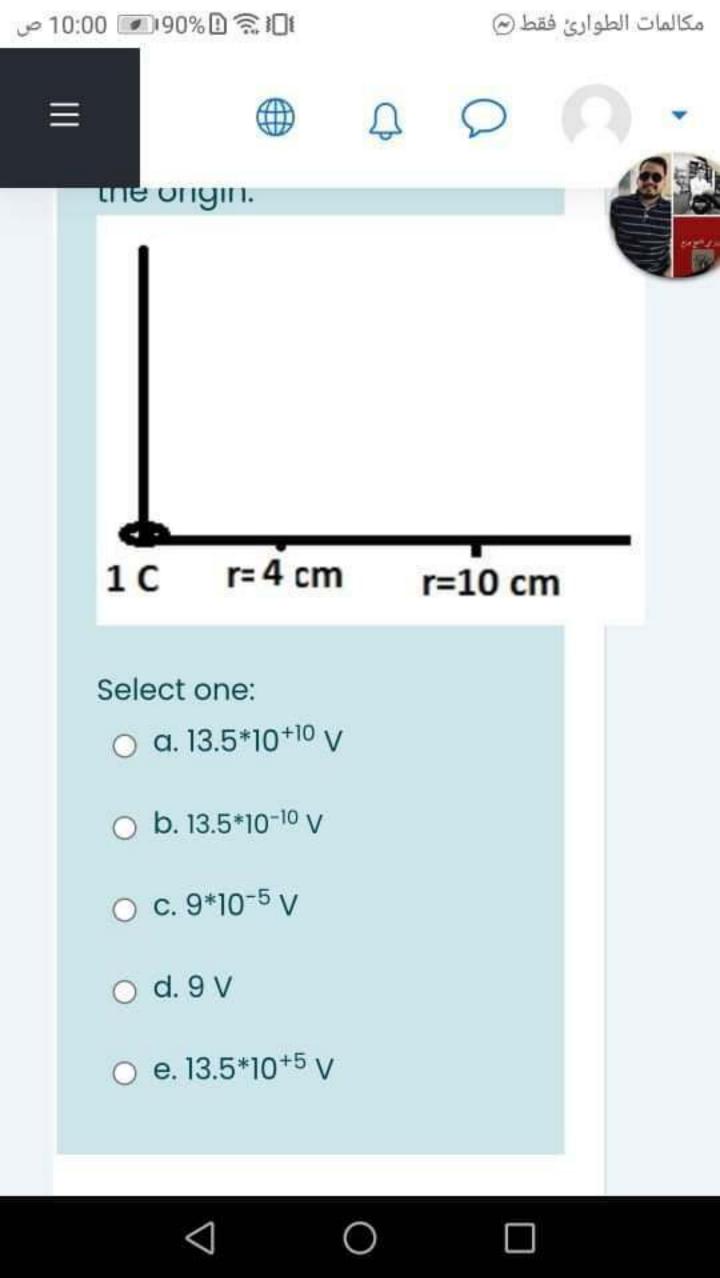






The relation between the electric potential V and the distance from the center of a charged spherical conducting sphere with radius R is















- c. to the right
- d. upwards

# Question 8

Not yet answered

Marked out of 1

▼ Flag question

The force on particle travelling at 10<sup>4</sup> m/s in a magnetic field of 10μT is 1.6 × 10<sup>-17</sup> N. The particle has a charge of: in C (angle 90)

- a. 1.6 x10<sup>-16</sup>
- b. 1.6 x10<sup>-18</sup>
- oc. 1.6x10<sup>-19</sup>
- od. 1.6 x 10<sup>-17</sup>



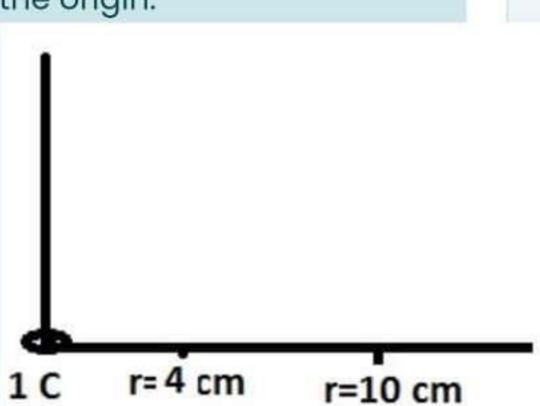






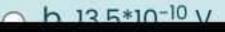


Calculate the potential difference between the potential at r = 4 cm and r = 10 cm for a single point charge of 1 C located at the origin.



Select one:

○ a. 13.5\*10<sup>+10</sup> V





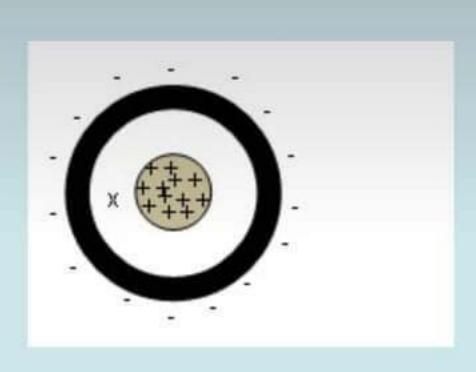




#### Teams • منذ لحظات

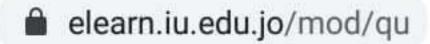
رد شهد ا. + 4 آخرين في قناة عامة في فريق ...Physics 2 . Dr ما يفتح الامتحان

رد إعجاب



- a. 1500
- 6 b. 3000
- o c. 111.1
- od. 500
- e. Zero

















A solid conducting sphere of radius 0.2 m carries a positive charge Q = 30 nC is placed inside a concentric, negatively charged spherical conducting shell of inner radius 0.5 m and outer radius of 0.6 m as shown in the figure. If the charge on the spherical shell is q = -10 nC, then the magnitude of the electric field (in N/C) at point x which is 0.3 m from the center is:

Note:  $k_e = 9 \times 10^9 \text{ N.m}^2/\text{C}^2$ 



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# Question 3

Not yet answered

Marked out of 1

Flag question

Charge Q is distributed uniformly throughout a spherical insulating shell. The net electrical flux in Nm<sup>2</sup> /C through the outer surface of the shell is:

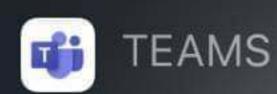
- a. Q
- b. Q/2εο
- c. Q/4εο
- d. Q/εο











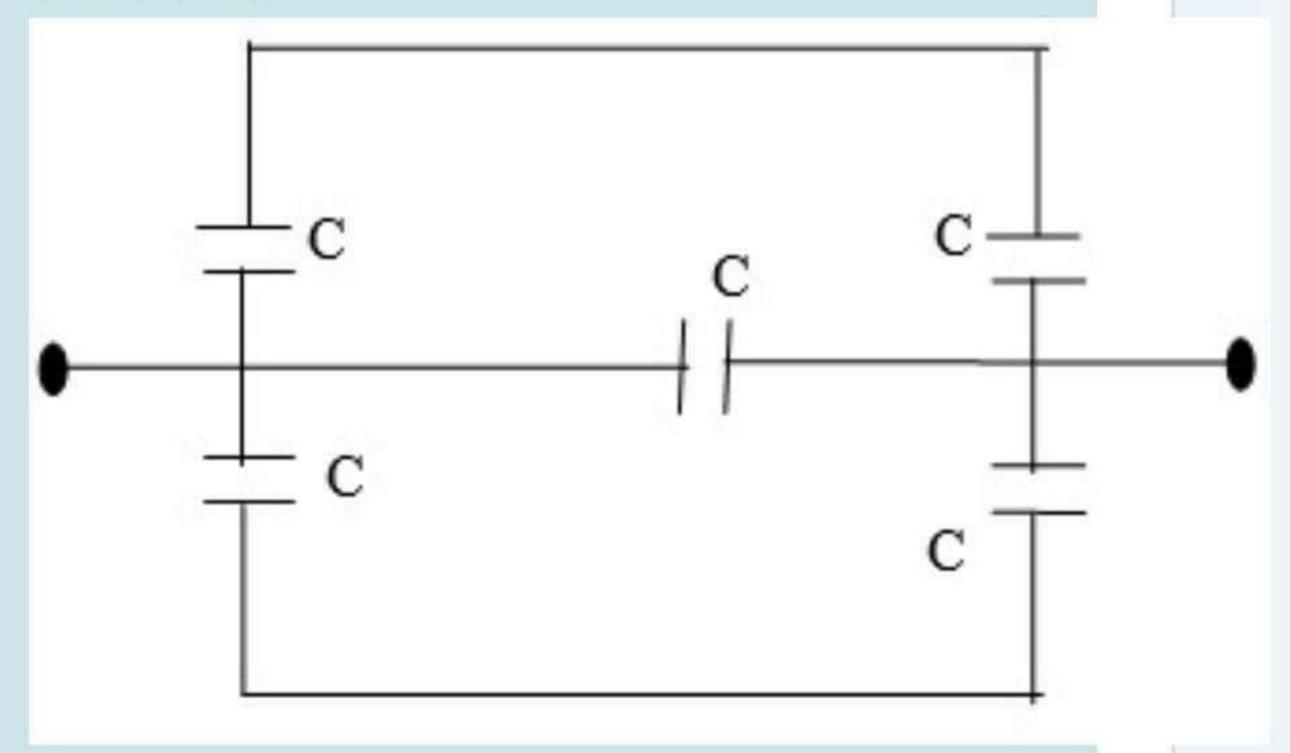
## replied in Physics 2 . Dr. Ihsan Erikat > General 8 + عمار دکتور مش راضي؟

Not yet answered

Marked out of 1

Equivalent capacitance of system of capacitors shown below in the figure is if

C = 7 m C

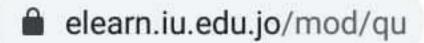


- o a. 14 mC
- o b. 40 mC
- o c. 16 mC
- O d. 20 mC





















Flag question

At the charged parallel plate capacitor, between the plate the electric field is maximum near

- a. the field is the same at all points inside the plate
- b. the negative plate
- c. the positive plate
- d. NONE

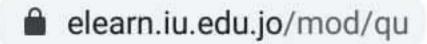
Question 3

















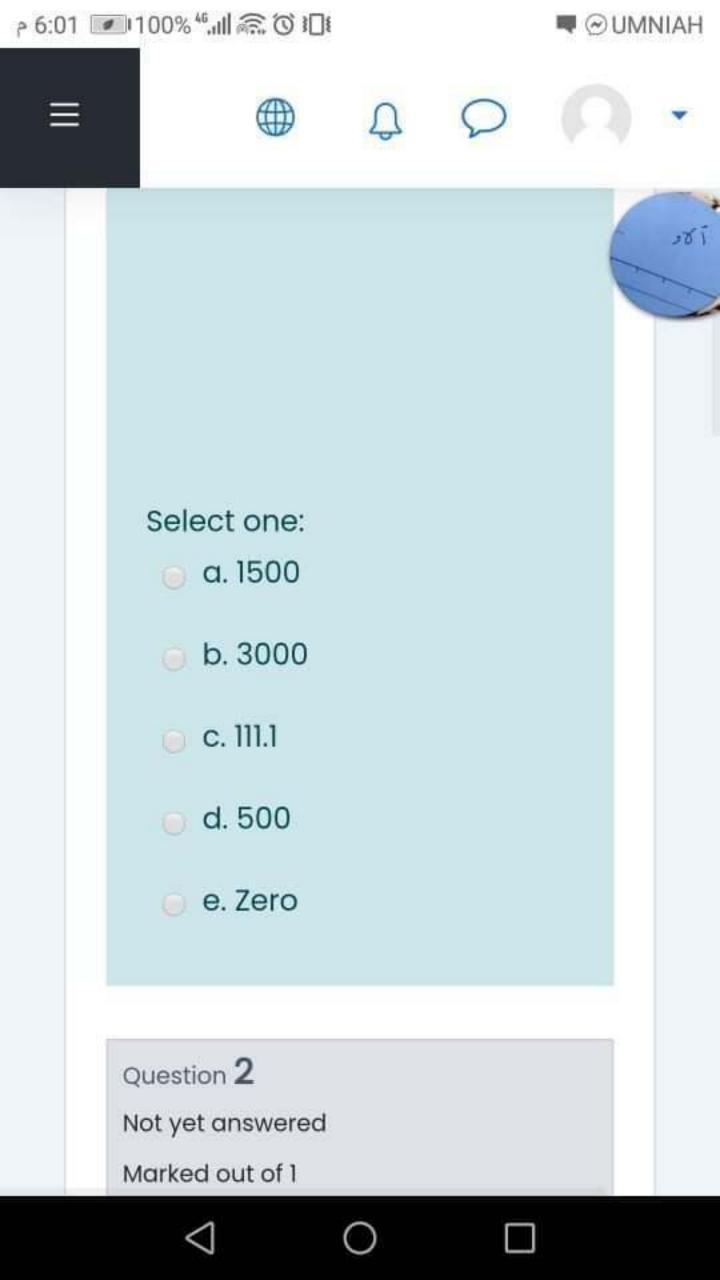






The relation between the electric potential V and the distance from the center of a charged spherical conducting sphere with radius R is

- a. C
- b. B
- ( c. D
- o d. E
- e. A















#### Flag question

If a capacitor is charged then the distance between its plates is decreased to the half (d2 = 1/2 d1) while the capacitance is still connected to the battery then which quantity will decrease

- a. Charge
- b. potential
- C. NONE
- d. Energy
- e. Capacitance

# Question 6

Not yet answered

Marked out of 1

If 500 J of work is needed to shift 10C of charge from one place to another. The potential difference between the places should be in V

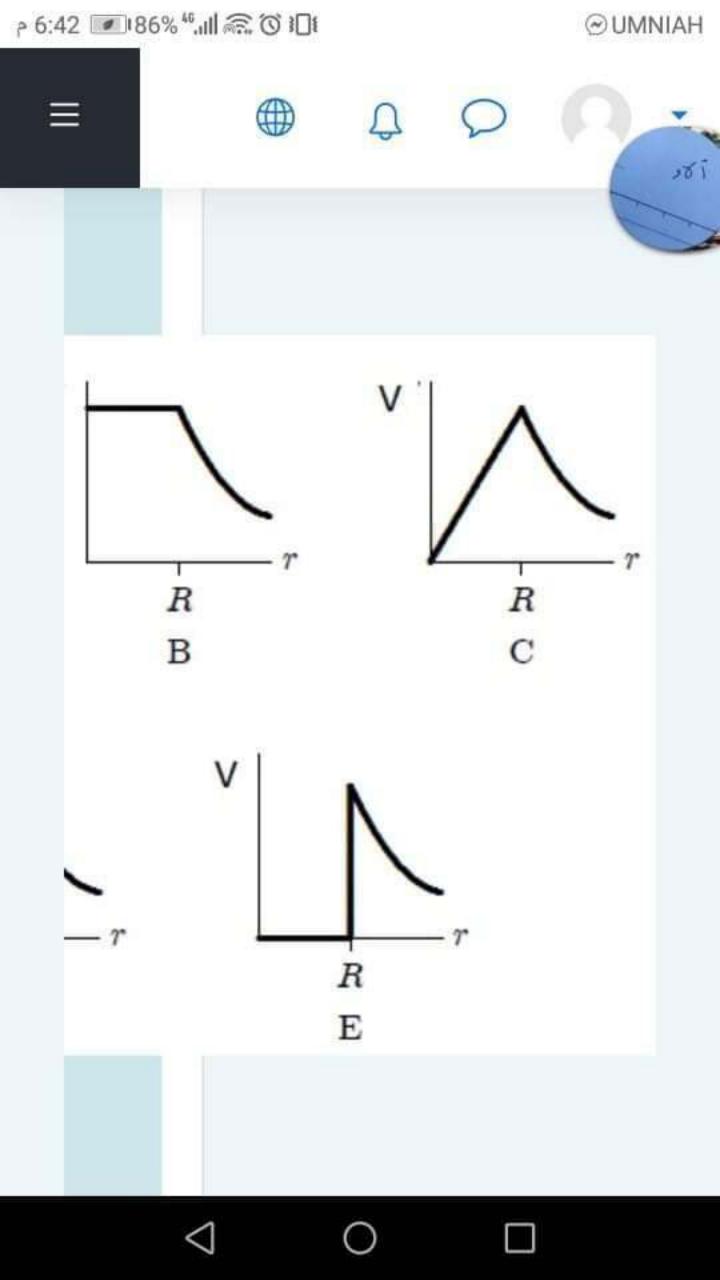
### Select one:

- o a. 50
- o b. 20
- O c. 0.5
- Od. 0.02

# Question 7

Not yet answered

Marked out of 1



رد شهد ا. + 10 آخرين في قناة عامة في فريق ... . Physics 2 كل الموقع علق

رد إعجاب

Question 4

Not yet answered

Marked out of 1

Flag question

The potential inside a charged conductor is zero

Select one:

- True
- False

Question 5

Not yet answered

Marked out of 1

Flag question













A solid conducting sphere of radius 0.2 m carries a positive charge Q = 30 nC is placed inside a concentric, negatively charged spherical conducting shell of inner radius 0.5 m and outer radius of 0.6 m as shown in the figure. If the charge on the spherical shell is q = -10 nC, then the magnitude of the electric field (in N/C) at point x which is 0.3 m from the center is:

Note:  $k_e = 9 \times 10^9 \text{ N.m}^2/\text{C}^2$ 







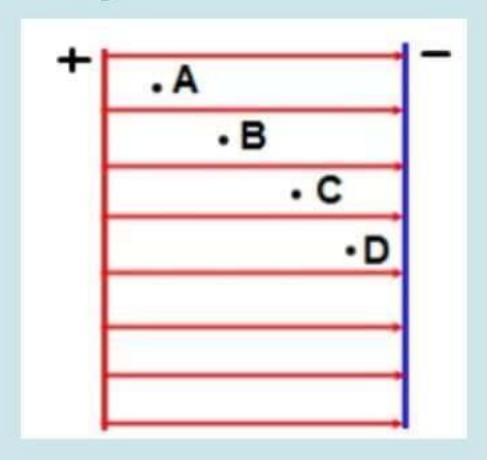




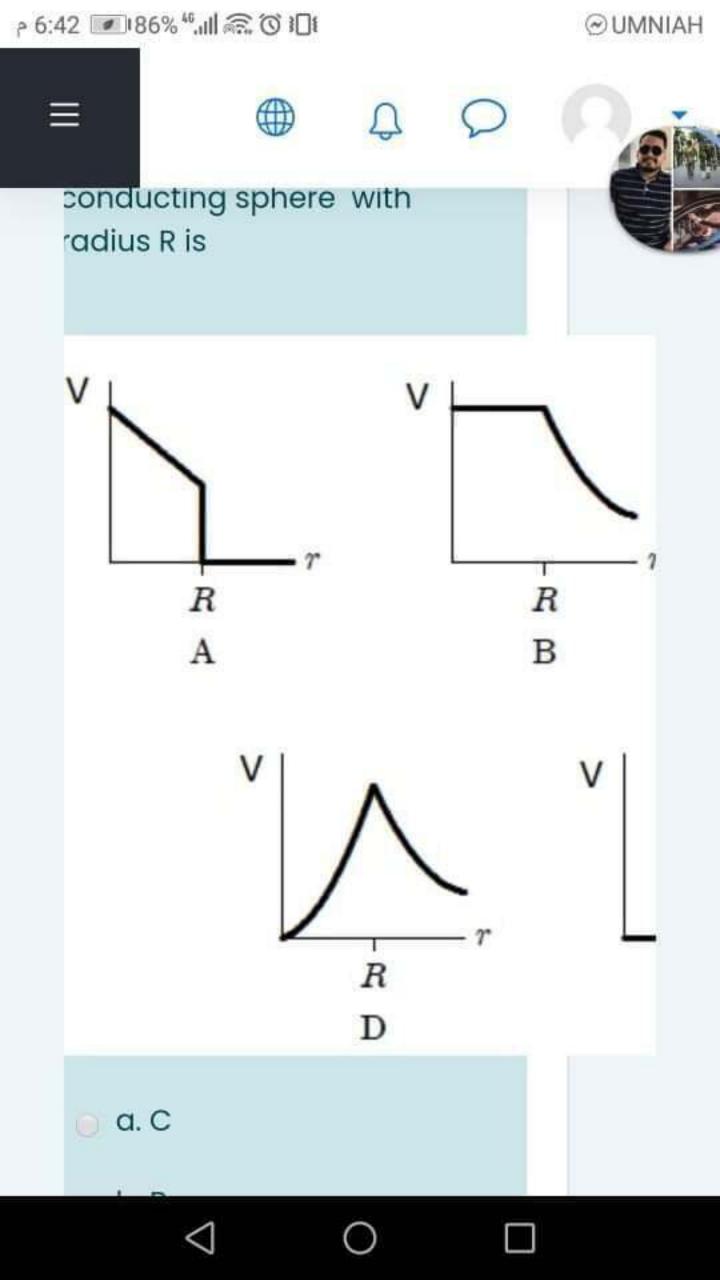




An electric field is created by two parallel plates. At which of the following points is the electric potential the strongest?



- a. All have same electric
   Field
- b. A





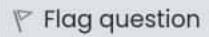


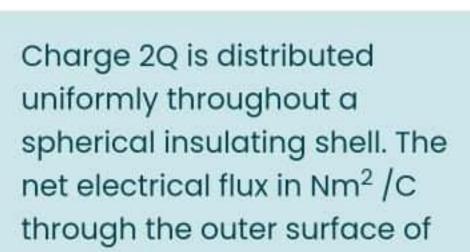






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Select one:

the shell is:

- α. Q/2εο
- O b. Q
- O c. Q/4εο
- O d. 2Q/εο

Question 4







فتح

# Question 1

Not yet answered

Marked out of 1

Flag question

If a capacitor is charged then the area of the plates is increased to 2A while the capacitance is still connected to the battery then the energy stored in the capacitor will

- a. doubeled
- ob. 4 times
- oc. half
- od. NONE

Question 2

Not yet answered





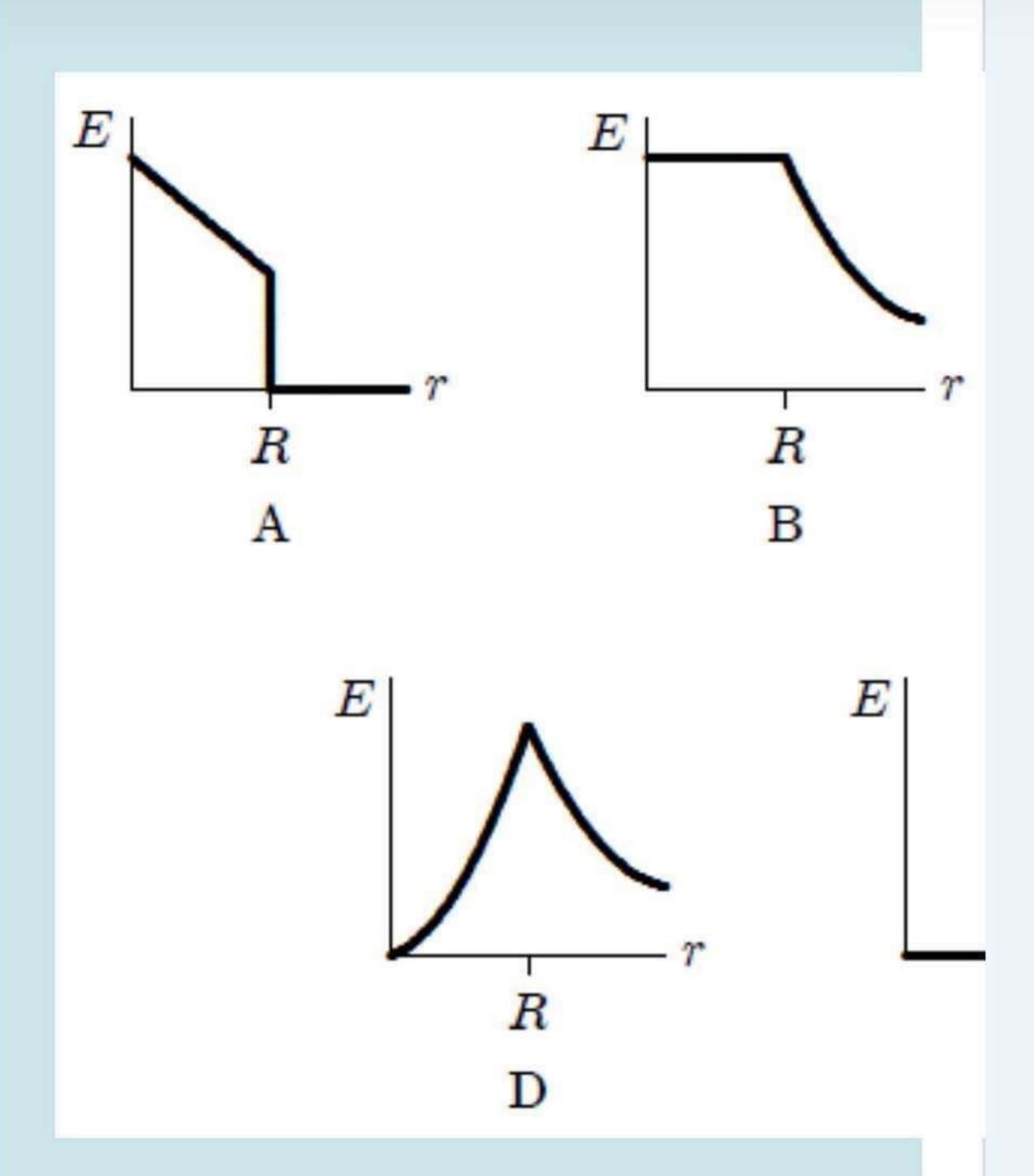






## إحسان Physics 2 . Dr. Ihsan Erikat > General

ادخل الامتحان



- a. B
- b. C
- C. D
- d. E
- e. A











When a glass rod is rubbed with a piece of silk, the glass rod acquires a positive charge and the silk acquires a negative charge. This process signifies that:

- the glass rod lost electrons to the piece of silk.
- the glass rod was rubbed very vigorously with the silk.
- the glass rod was not rubbed very hard with the silk.
- the glass rod gained electrons from the piece of silk.











Marked out of 1

Flag question

A proton passes a magnetic field parallel to it (موازي ) then

Select one:

- o. it will speed up (تزداد) (سرعته
- b. speed down (تقل سرعته)
- c. change it direction
- رشيء d. nothing change (شيء

Question 10

Not yet answered

Marked out of 1























# Question 9

Not yet answered

Marked out of 1

▼ Flag question

A proton passes a magnetic field perpendicularly (عمودي) then

### Select one:

- a. change it direction
- b. Stop
- C. it will speed up (تزداد سرعته)
- نقل سرعته) d. speed down (تقل سرعته)

Question 10

Not yet answered





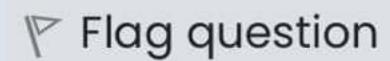




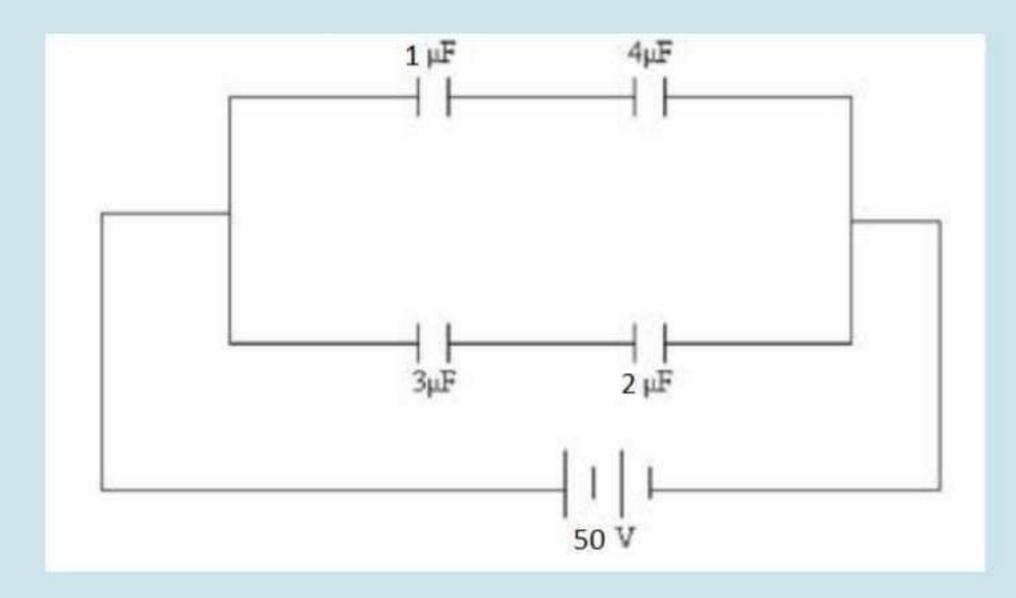


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Marked out of 1



Four capacitors are connected as shown in the figure below. What is the charge Q on the 3.0µF capacitor?



Select one:

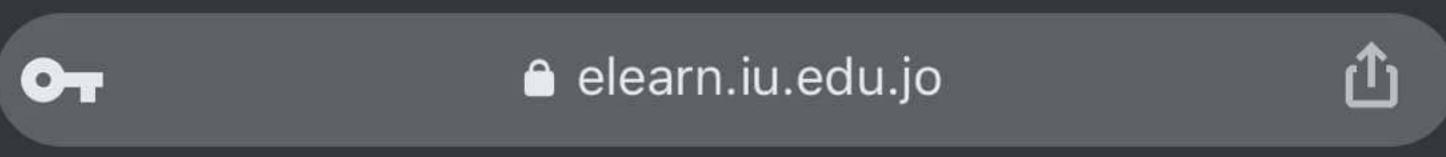
- 40 μC
- 120 μC
- 80 μC
- 60 μC

Question 5

Not yet answered

Marked out of 1







O e. 9 V

# Question 2

Not yet answered

Marked out of 1

▼ Flag question

If 30 J of work is required to shift 10 C charge from one place to another then potential difference is

- a. 3
- b. 2 V
- o c. 1 V
- od. 0.5 V











فيزياء 2 @ # ALI \*

يخوان



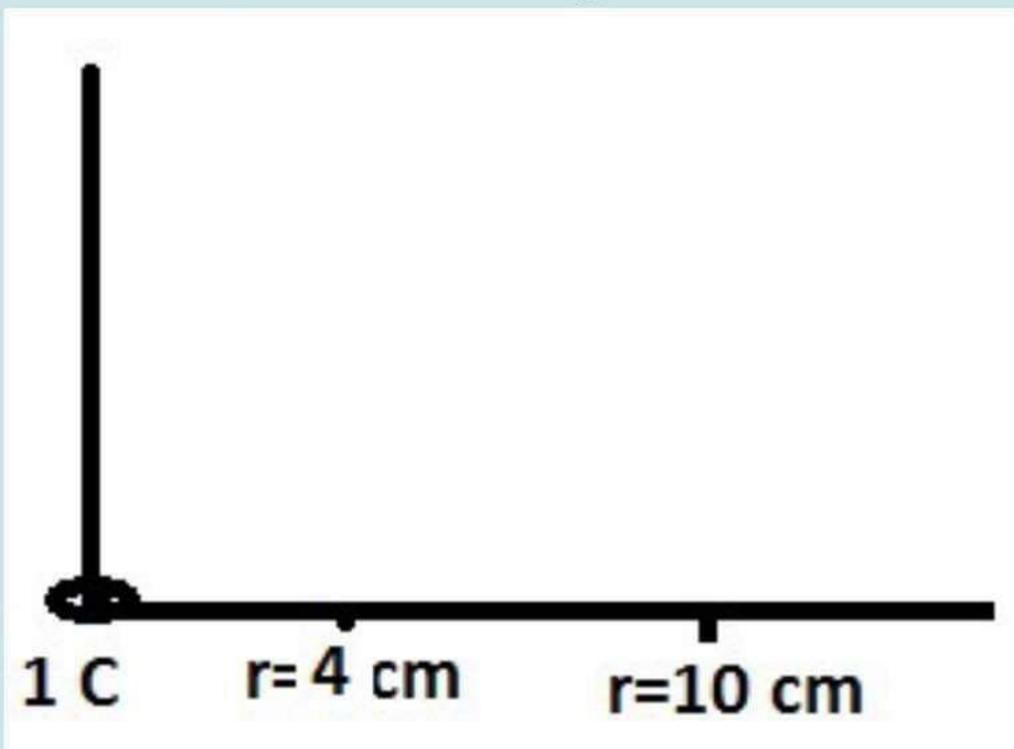








Calculate the potential difference between the potential at r = 4 cm and r = 10 cm for a single point charge of 1 C located at the origin.



- a. 9\*10<sup>-5</sup> V
- b. 13.5\*10<sup>+5</sup> V
- O C. 13.5\*10<sup>-10</sup> V
- Od. 13.5\*10<sup>+10</sup> V
- O e. 9 V



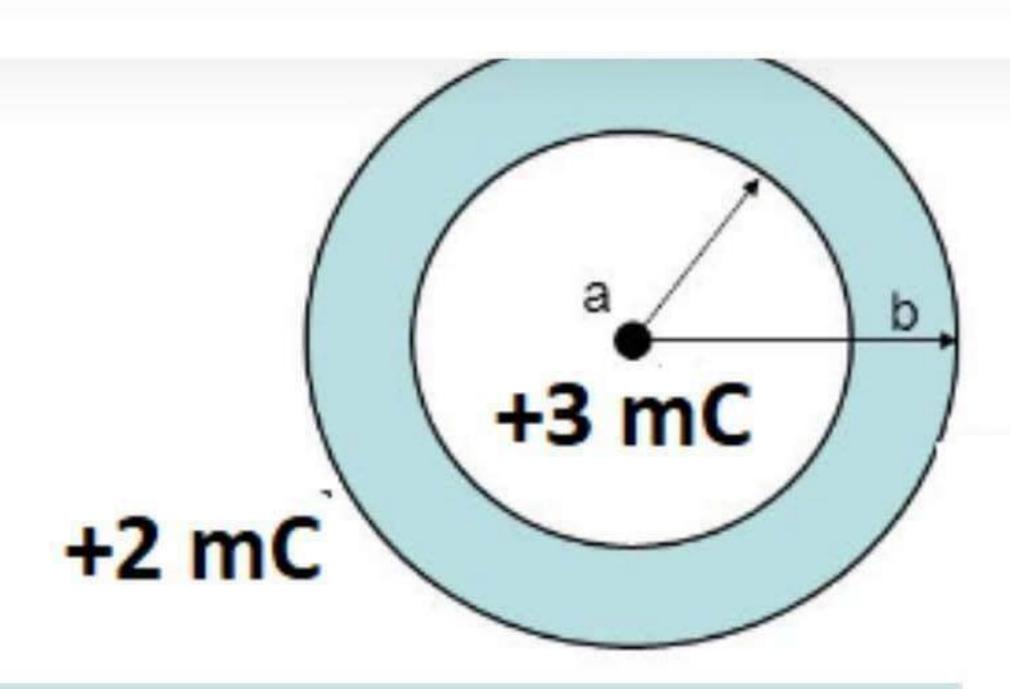








Khãlëd Ãkrâm To کیمیاء ۲۰۰ False



- a. the inner surface charge = 2 mC and the outer surface
   charge -3 mC
- b. the inner surface charge =+
   3 mC and the outer surface
   charge -5 mC
- c. the inner surface charge = 5 mC and the outer surface charge +5 mC
- d. the inner surface charge = 3 mC and the outer surface charge +5 mC













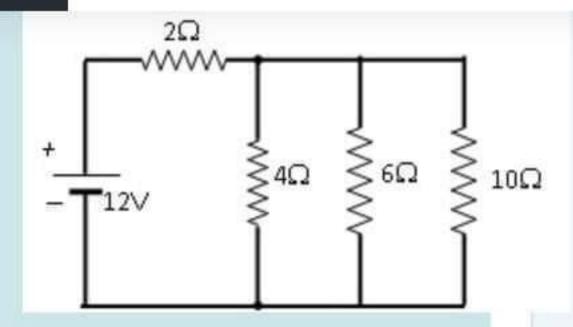
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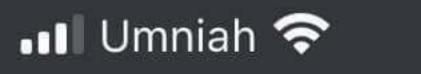








- oa. 0.99
- o b. 11
- oc. 0.54
- od. 0.59
- o e. 16



### 6:09 PM elearn.iu.edu.jo















# Question 7

Not yet answered

Marked out of 1

# increasing the radius of a sphere will increase

- a. capacitance
- O b. NONE
- c. potential
- d. charge

# Question 8

Not yet answered

Marked out of 1

 $z^3$ 













If the electric potential in a region of space is given by:

$$V(x, y, z) = 3x - y^2 +$$

where x, y, z are given in meters, and V is given in volts. The x-component of the electric field (in V/m) at the point (-1,-1,-1)m is:



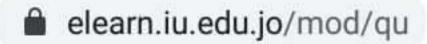
























Question 9

Not yet answered

Marked out of 1

Flag question

increasing the radius of a sphere will increase

- a. charge
- b. capacitance
- c. potential
- d. NONE

Question 10







# Question 2

Not yet answered

Marked out of 1

A capacitor of capacitance 3 nF and potential difference of 50 V. What is the energy stored on this capacitor (in nJ)

# Select one:

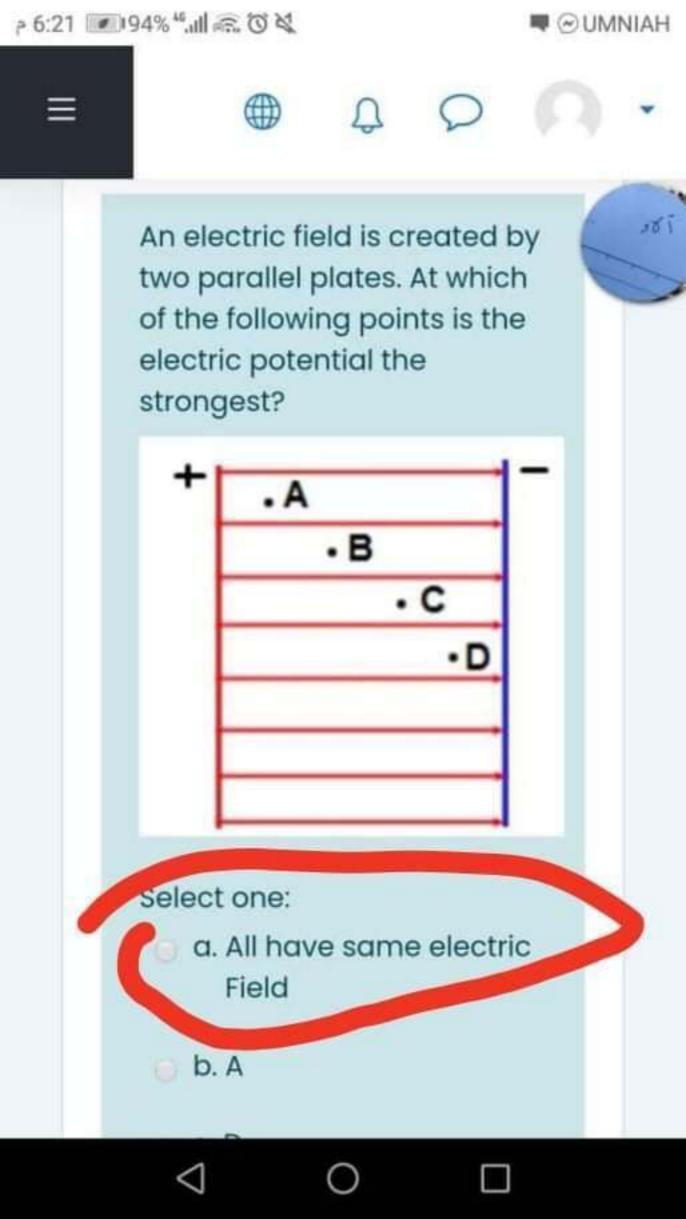
- o a. 300
- o b. 200
- oc. 150
- O d. 50
- o e. 75

# Question 3

Not yet answered

Marked out of 1

▼ Flag question







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An electron with a mass 9.1 x 10<sup>-31</sup> and a charge 1.6 x 10<sup>-19</sup> enters a uniform magnetic field B = 4 T (angle 90)at a velocity 5 m/s. What is the radius of the curvature of the electron in the field? in m

- a. 9.47 x10<sup>-12</sup>
- b. 28.4 x10<sup>-12</sup>
- c. 7.109x10<sup>-12</sup>
- O d. 14.2x10<sup>-12</sup>



Khãlëd Ākrâm To your group False



Not yet answered

Marked out of 1

▼ Flag question

A wire of length 30 cm carries a total charge 120 nC distributed uniformly along its length.
Calculate the linear charge density λ (in C/m).

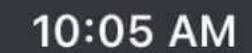
- o a. 5.0×10<sup>9</sup>
- $\bigcirc$  b.  $1 \times 10^{-7}$
- oc. Zero
- od. 2.0×10<sup>-8</sup>
- o e. 4×10<sup>-7</sup>















■■ Umniah 🛜











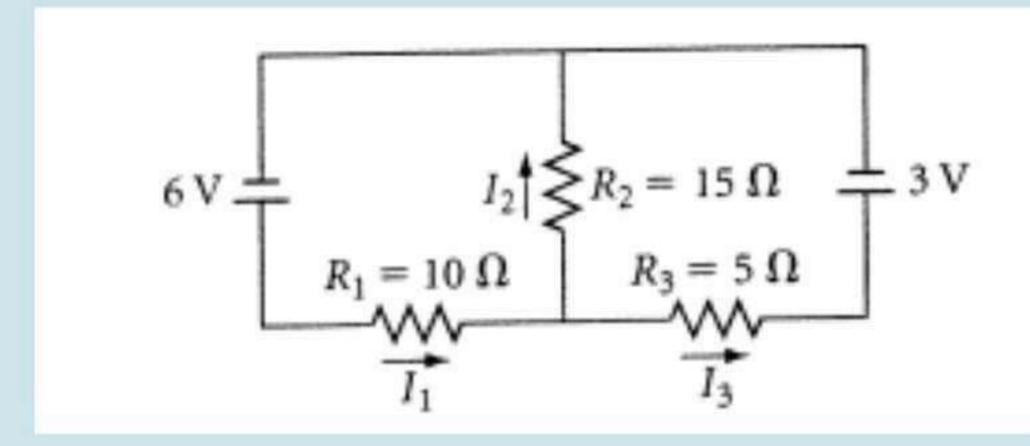




Not yet answered

Marked out of 1

# The value of the current $I_1$ (in A) is:



- a. 0.05
- o b. 1.33
- O c. 0.27
- O d. 0.87
- o e. 0.22

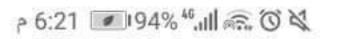




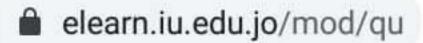














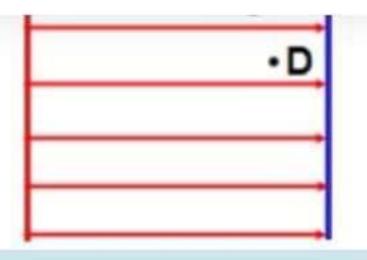












- a. All have same electric
   Field
- b. A
- C. D
- d. C
- e. B





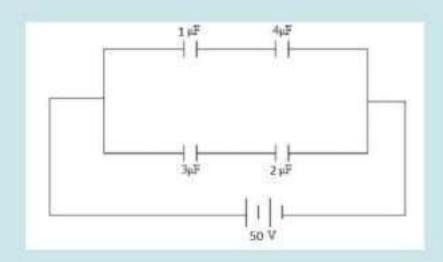








Four capacitors are connected as shown in the figure below. What is the charge Q on the 3.0µF capacitor?



- 80 μC
- 60 µC
- 40 μC
- 120 μC







# Khãlëd Ãkrâm To your group 50



Not yet answered

Marked out of 1

Flag question

At the charged parallel plate capacitor, between the plate the electric potential is maximum near

W

- a. NONE
- b. the field is the same at all points inside the plate
- c. the positive plate
- d. the negative plate

Question 14

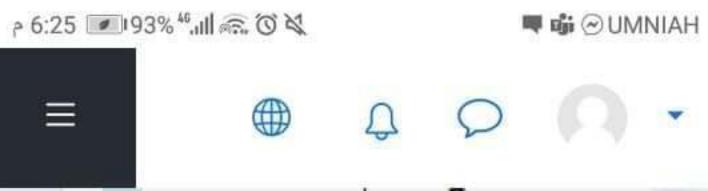
Not yet answered

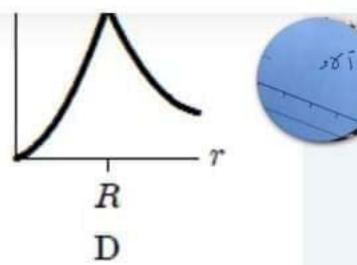












- a. C
- b. B
- c. D
- d. E
- e. A

Question 14

Not yet answered

Marked out of 1

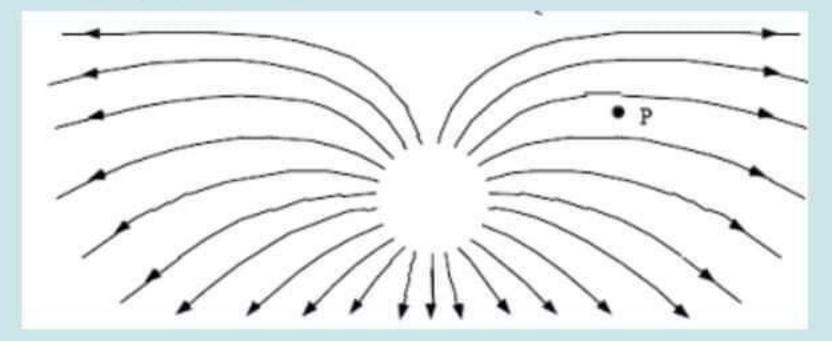
♥ Flag question



#### mohammad: تم إرسال



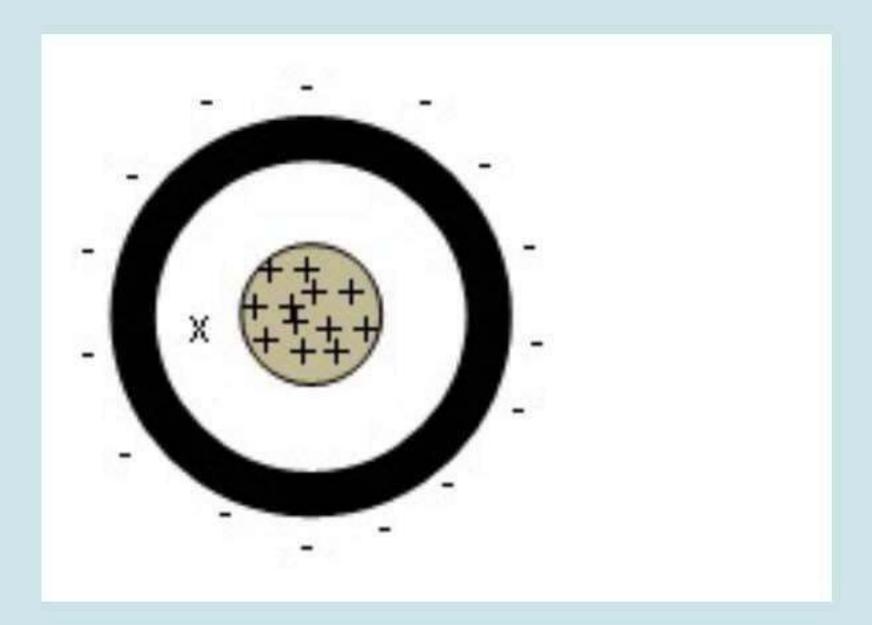
What can you conclude about charge of the object and the electric field shown?



A solid conducting sphere of radius 0.2 m carries a positive charge Q = 15 nC is placed inside a concentric, negatively charged spherical conducting shell of inner radius 0.5 m and outer radius of 0.6 m as shown in the figure. If the charge on the spherical shell is q = -10 nC, then the magnitude of the electric field (in N/C) at point x which is 0.3

Note:  $k_e = 9 \times 10^9 \text{ N.m}^2/\text{C}^2$ 

m from the center is:



- a. 500
- o b. 55.6
- o c. 111.1

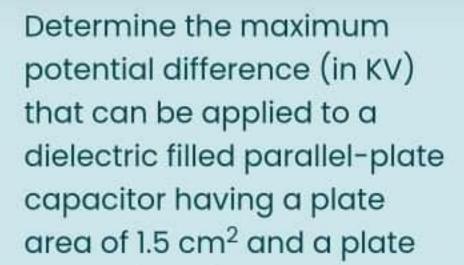












If the Dielectric Strength is  $E_0$ =  $100 \times 10^6 \text{V/m}$ 

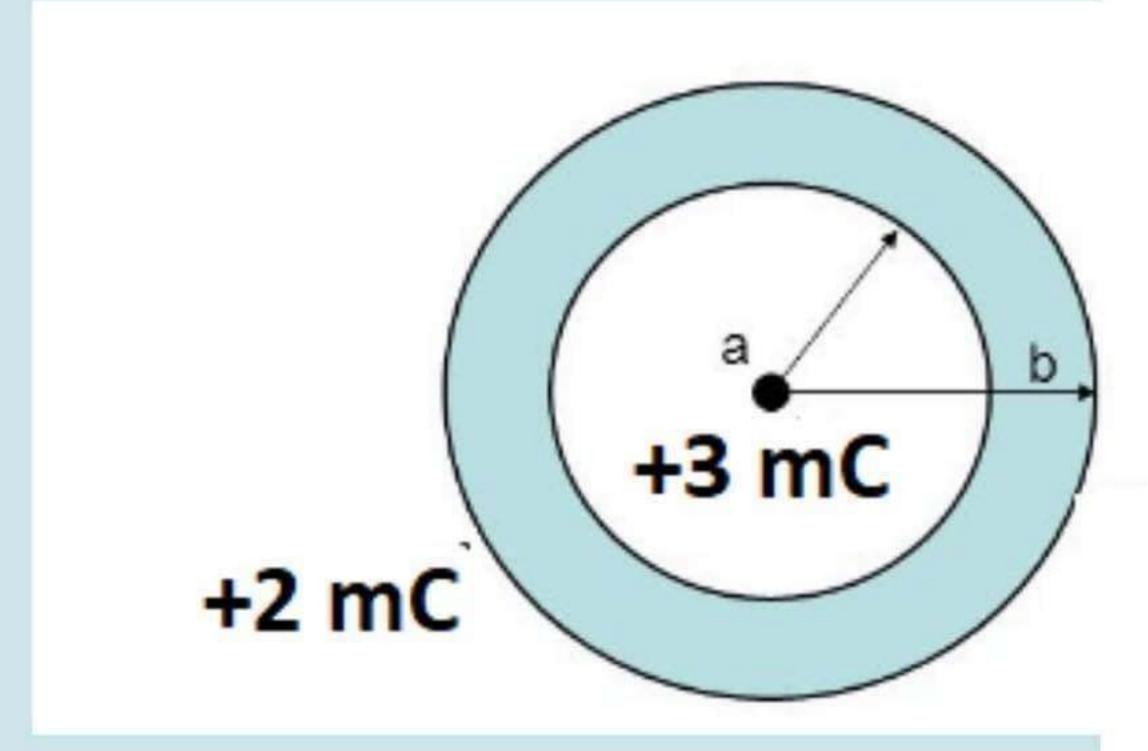
separation of 0.02 mm.

- a. 4.8
- b. 5000
- c. 1500
- d. 750
- e. 2.0

■■ Umniah 🛜



A positive charge Q=3 mC is placed inside a spherical conducting shell with inner radius a and outer radius b which has an extra charge of 2 mC placed on it. When all motion of charges ends, then the charges on the inner and outer surfaces of the shell are



- a. the inner surface charge = 2 mC and the outer surface charge -3 mC
- b. the inner surface charge =+
   3 mC and the outer surface















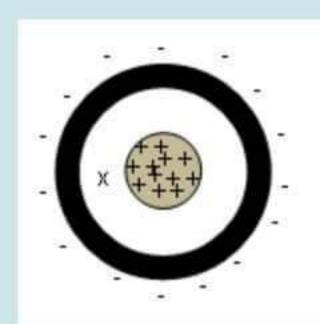












- b. 3000
- o c. 111.1
- od. 500
- o e. Zero















تم تمييزه من 1

سؤال العلم 🌱

عندما يُفرك قضيب زجاجي بقطعة من الحرير ، يكتسب القضيب الزجاجي شحنة موجبة ويكتسب الحرير شحنة سالبة. تشير هذه العملية إلى أن

#### :حدد واحدًا

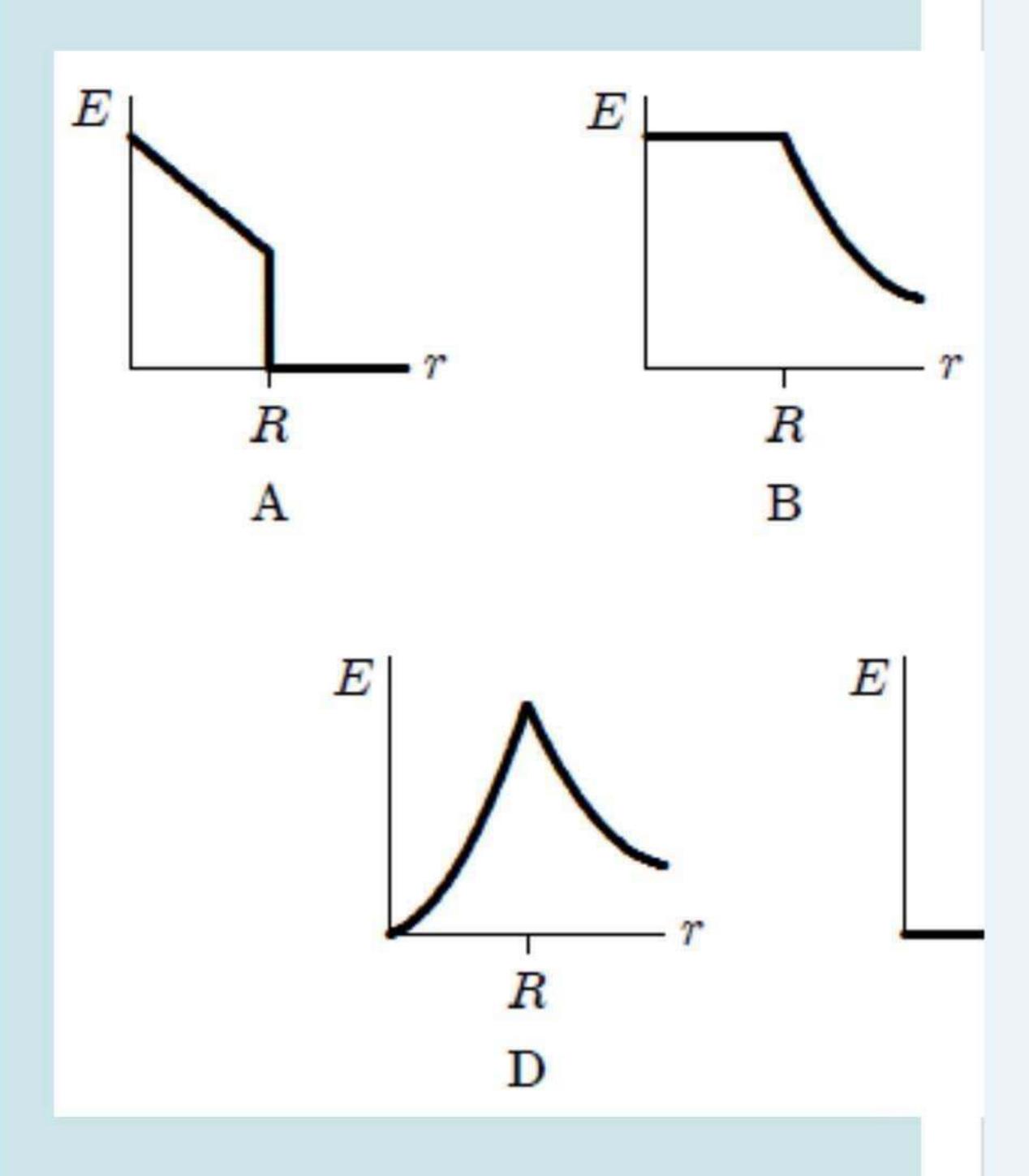
- فقد قضيب الزجاج إلكتروناته في .قطعة الحرير
- تم فرك قضيب الزجاج بشدة 

  .بالحرير
- یکن الحریر یفرك قضیب الزجاج○ بشدة
- اكتسب قضيب الزجاج إلكترونات .من قطعة الحرير



replied in Physics 2 . Dr. Ihsan Erikat > General 10 + عمار دكتورة مش راضي و٤٠ دقيقة مش كافي خلي بعد الافطار

> The relation between the electric field E and the distance from the center of a charged spherical insulating sphere with radius R is



- a. B
- b. C
- C. D













آ کاد

Hag question

At the charged parallel plate capacitor, between the plate the electric field is maximum near

- a. the field is the same at all points inside the plate
- b. the negative plate
- o. the positive plate
- d. NONE

Question 3















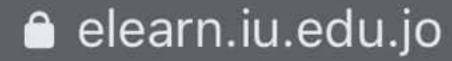
A thin infinite sheet of surface charge density  $3nC/m^2$ . The magnitude of the electric field at 2 m from the sheet is:

Note:  $\varepsilon_0 = 8.85 \times 10^{-12}$  C<sup>2</sup>/N.m<sup>2</sup>

- a. 508.47
- b. 169.5
- o c. 395.5
- d. Zero
- e. 285.5











■■ Umniah 🛜

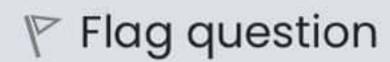








Marked out of 1



A thin infinite sheet of surface charge density 3nC/m<sup>2</sup>. The magnitude of the electric field at 2 m from the sheet is:

Note:  $\varepsilon_0 = 8.85 \times 10^{-12} \,\text{C}^2/\text{N.m}^2$ 

### Select one:

- o. 285.5
- o b. 508.47
- oc. 395.5
- O d. Zero
- e. 169.5

Previous page

Next page























- object has negative charge and uniform electric field
- object has positive charge and non-uniform electric field
- object has negative charge and non-uniform electric field
- object has positive charge and uniform electric field













A wire of length 30 cm carries a total charge 30 nC distributed uniformly along its length. Calculate the linear charge density λ (in C/m).

#### Select one:

- a. 0.33×10⁻⁻
- o b. Zero
- c. 2.0×10<sup>-8</sup>
- d. 1×10<sup>-7</sup>
- e. 5.0×109

Question 13

Not yet answered

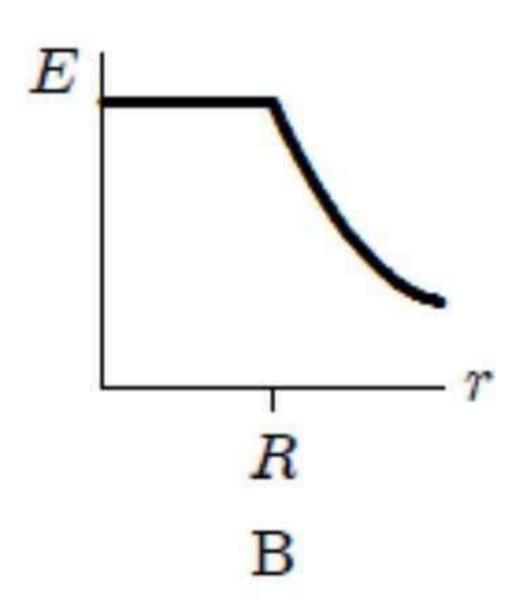


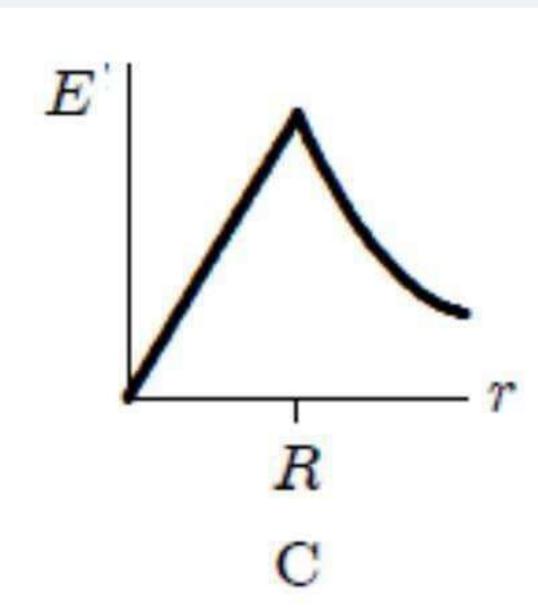


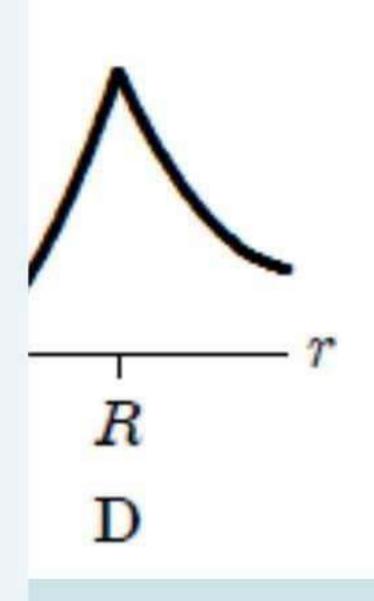


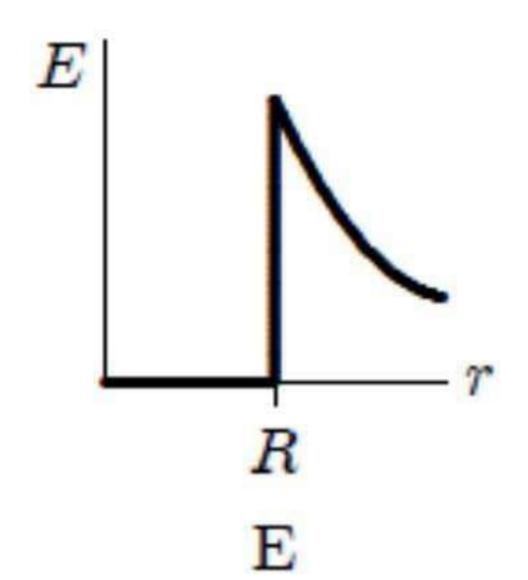
Khãlëd Ãkrâm To your group ي

en the electric tance from the ed spherical with radius R is













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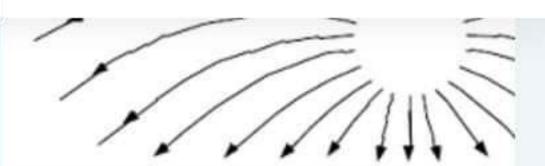












#### :حدد واحدًا

- الكائن له شحنة سالبة ومجال کهربائی موحد
- الكائن له شحنة موجبة ومجال کهربائی غیر منتظم
- الكائن له شحنة سالبة ومجال کهربائی غیر منتظم
- الكائن له شحنة موجبة ومجال 🔘 کهربائی موحد



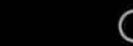


العربية

الإنجليزية











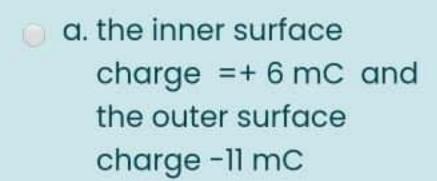












- b. the inner surface
   charge = 11 mC and
   the outer surface
   charge +11 mC
- c. the inner surface
   charge = 6 mC and
   the outer surface
   charge +11 mC
- d. the inner surface charge = - 2 mC and the outer surface charge -3 mC











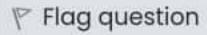






Not yet answered

Marked out of 1



If 500 J of work is needed to shift 10C of charge from one place to another. The potential difference between the places should be in V

- a. 0.02
- b. 0.5
- (e) c. 20
- od. 50





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Marked out of 1



▼ Flag question

If 5 J of work is required to shift 10 C charge from one place to another then potential difference is

Select one:

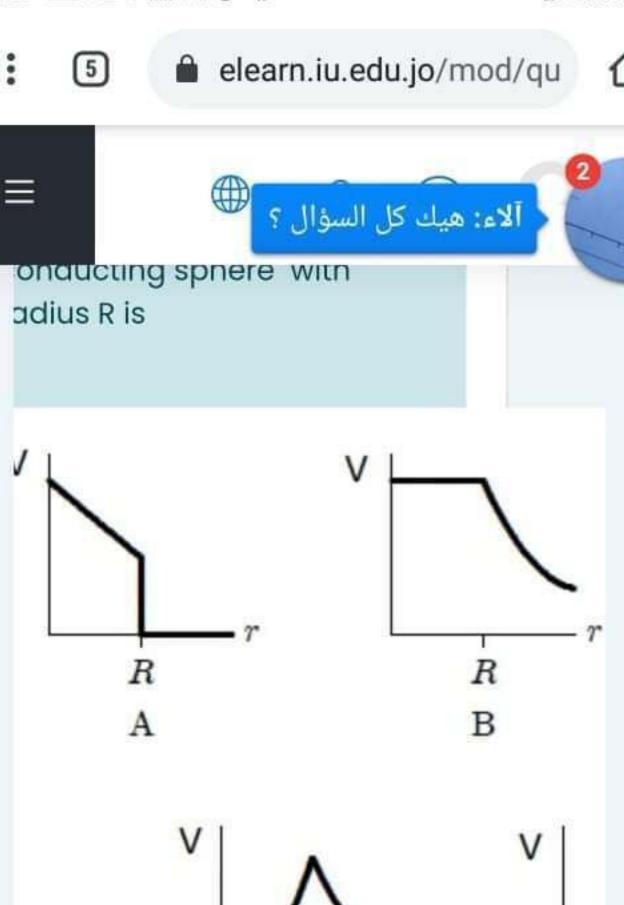
- o a. 3
- o b.1V
- oc. 2 V
- od. 0.5 V

Question 3













R

D



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4

2

Not yet answered

Marked out of 1

A proton is projected in the positive x direction into a region of uniform electric field E = -12 × 10<sup>5</sup>i N/C. The proton travels 2 cm before coming to rest. Determine its initial speed (in m/s).

Note:

Mass of the proton =  $1.67 \times 10^{-27}$  Kg Charge of the proton =  $1.6 \times 10^{-19}$  C

- $\bigcirc$  a. 5.75  $\times$  10<sup>13</sup>
- o b. Zero
- $\circ$  c. 2.14 × 10<sup>6</sup>
- $\bigcirc$  d. 8.05 ×  $10^{12}$
- $\circ$  e. 2.84 × 10<sup>6</sup>







