

# Physics

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(Chapter 1) (Electric Charges and Fields)  
(Class 12)

## Question 1.13:

Figure shows tracks of three charged particles in a uniform electrostatic field. Give the signs of the three charges. Which particle has the highest charge to mass ratio?



## Answer 1.13:

Opposite charges attract each other and same charges repel each other. It can be observed that particles 1 and 2 both move towards the positively charged plate and repel away from the negatively charged plate. Hence, these two particles are negatively charged. It can also be observed that particle 3 moves towards the negatively charged plate and repels away from the positively charged plate. Hence, particle 3 is positively charged.

The charge to mass ratio ( $emf$ ) is directly proportional to the displacement or amount of deflection for a given velocity. Since the deflection of particle 3 is the maximum, it has the highest charge to mass ratio.

## Question 1.14:

Consider a uniform electric field  $E = 3 \times 10^3 \text{ i N/C}$ .

(a) What is the flux of this field through a square of 10 cm on a side whose plane is parallel to the  $yz$  plane?

(b) What is the flux through the same square if the normal to its plane makes a  $60^\circ$  angle with the  $x$ -axis?

## Answer 1.14:

(a) Electric field intensity,  $E = 3 \times 10^3 \text{ i N/C}$

Magnitude of electric field intensity,  $|E| = 3 \times 10^3 \text{ N/C}$

Side of the square,  $s = 10 \text{ cm} = 0.1 \text{ m}$

Area of the square,  $A = s^2 = 0.01 \text{ m}^2$

The plane of the square is parallel to the  $y$ - $z$  plane. Hence, angle between the unit vector normal to the plane and electric field,  $\theta = 0^\circ$

Flux ( $\phi$ ) through the plane is given by the relation,

$$\phi = |E|A \cos \theta$$

$$= 3 \times 10^3 \times 0.01 \times \cos 0^\circ = 30 \text{ N m}^2/\text{C}$$

(b) Plane makes an angle of  $60^\circ$  with the  $x$ -axis. Hence,  $\theta = 60^\circ$

Flux,  $\phi = |E|A \cos \theta$

$$= 3 \times 10^3 \times 0.01 \times \cos 60^\circ$$

$$= 30 \times \frac{1}{2}$$

$$= 15 \text{ N m}^2/\text{C}$$

## Question 1.15:

What is the net flux of the uniform electric field of Exercise 1.14 through a cube of side 20 cm oriented so that its faces are parallel to the coordinate planes?

## Answer 1.15:

All the faces of a cube are parallel to the coordinate axes. Therefore, the number of field lines entering the cube is equal to the number of field lines piercing out of the cube. As a result, net flux through the cube is zero.

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web home meditation achtsamkeit datum wer zwischen den oben genannten daten 21 januar und 19 februar geboren wurde besitzt das sternzeichen wassermann das element des sternzeichens ist luft es steht sinnbildlich für den göttlichen atem der das leben trägt sein herrschender planet ist der uranus das symbol des wassermanns

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web der wassermann lateinisch aquarius astrologisches symbol ist das elfte zeichen des tierkreises die herrscherplaneten des wassermanns sind saturn und uranus sein element ist luft

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web steckbrief wassermann geburtstag zwischen dem 21 1 und 19 2 element luft planet uranus glücksstein amazonit powerfarbe blau blüte orchidee positive eigenschaften gesellig kreativ tolerant gutmütig humorvoll zodiac beauty set wassermann

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web 21 januar sternzeichen wassermann als ein wassermann geboren am 21 januar die sie für ihre originalität und vielseitige persönlichkeits bekannt während andere die gesellschaft aussehen definition zu finden nehmen sie ganz nach ihren eigenen geist ihre interessen und sichts zu definieren

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web die körperliche entsprechung des sternzeichen wassermanns findet sich unter anderen in allen elektrischen körperfunktionen wie zum beispiel der reizübertragung der nervenbahnen alle nervösen fehlfunktionen finden sich hier so auch die neigung zu krampfzuständen oder unfällen und brüchen

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web feb 2 2023 dieses sternzeichen bist du wenn du im februar geboren bist 21 januar 19 februar wassermann 20 februar 20 märz fisch welche typischen eigenschaften haben die sternzeichen im februar

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web feb 2 2023 das sternzeichen wassermann ist das 11 von 12 tierkreiszeichen beginnt am 21 januar und endet am 19 februar der wassermann zählt genau wie die sternzeichen löwe stier und skorpion zu der gruppe der fixierten sternzeichen die als wahre gewohnheitstiere gelten und routine schätzen gleichzeitig sind sie aber auch als

horoskop diese sternzeichen erwartet 2022 ein karrieresprung - Jul 02 2022

web bleiben sie am ball und geben sie weiterhin stets ihr bestes wer sich allerdings im neuen jahr über besonders großen beruflichen erfolg freuen darf hängt laut astrologen mit dem jeweiligen sternzeichen zusammen im bazaar horoskop wird verraten welche vier sternzeichen diesen enormen karrieresprung schaffen

*der wassermann 21 januar 19 februar gabriele danners* - Jun 01 2022

web jan 17 2023 wer also in der zeit vom 21 01 19 02 geboren ist ist dem sternzeichen wassermann zugehörig das element

luft der wassermann zählt wie die waage und zwillinge zum element luft vielseitigkeit flexibilität und intellektuelle funktionen zeichnen angehörige des luftelements aus austausch und neugierde sind lebenselixier

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web apr 18 2018 sternzeichen wassermann 21 januar bis 19 februar planet uranus element luft zahl 4 edelsteine türkis aquamarin rosenquarz körperregionen wadenregion sprunggelenk verortung zukunftsorientiert

sternzeichen wassermann datum astrologie - Apr 11 2023

web die sternzeichen wassermanns beginnt am 21 januar aber für sieben tage ist noch nicht teil ihrer befugnisse voll er ist in vollem umfang in kraft bis zum 18 februar aber während der nächsten sieben tage vollständig seinen einfluss verliert die wachsende macht der zeichen der fische geben