

23. Monochromatic light is incident on a diffraction grating. The diffraction pattern from the diffraction grating is then formed on a screen.

$n=1$

Only the central maximum and the first-order maxima can be observed on the screen.

What change will allow the second-order maxima to be observed on the screen?

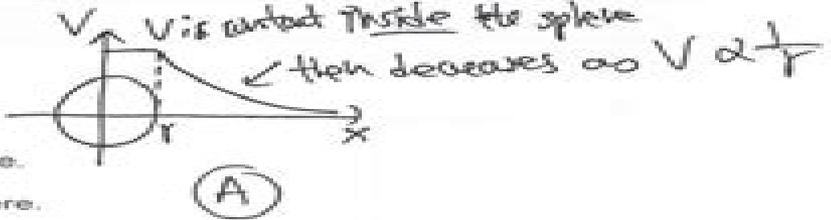
- A. Decrease the distance between the diffraction grating and the source of light *no effect*
- B. Increase the distance between the diffraction grating and the screen *no effect*
- C. Increase the wavelength of the monochromatic light $\lambda \uparrow, n \downarrow \times \quad d \sin \theta = n \lambda$
- D. Reduce the number of lines per unit length of the diffraction grating $n = \frac{d \sin \theta}{\lambda}$

$d \uparrow, \therefore n \downarrow$ (D)

24. A solid metallic sphere is positively charged and isolated from all other charges.

The electric potential due to the sphere

- A. is constant inside the sphere.
- B. is constant outside the sphere.
- C. is smallest at the surface of the sphere.
- D. increases with distance from the sphere.



25. A planet orbits the Sun in an elliptical orbit moving in the direction shown.



At the position shown, which quantity is decreasing for the planet?

- A. Acceleration
- B. Angular momentum
- C. Kinetic energy
- D. Gravitational potential energy

(D)

$KE \uparrow$ as it moves closer to the sun, $\therefore KE \uparrow$
 ~~$TE = KE + PE$~~
 $\therefore PE \downarrow$
 $KE \uparrow$, so $PE \downarrow$
 Also $GPE = -\frac{GMm}{r}$
 As $r \downarrow$, $\left(\frac{GMm}{r}\right) \uparrow$
 $\therefore GPE$ is more negative, so $GPE \downarrow$.

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E Durkheim



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