

Problem 4) Under the influence of the Coulomb field of charge $+Q$, a charge $-q$ is moving around it in an elliptical orbit. Find out the correct statement(s).

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- 1) The angular momentum of the charge $-q$ is constant.
- 2) The linear momentum of the charge $-q$ is constant.
- 3) The angular velocity of the charge $-q$ is constant.
- 4) The linear speed of the charge $-q$ is constant.

Ans) 1