

THEORY**QUESTION**

1. A particle of mass m is projected from the origin of a Cartesian coordinate system with an initial velocity u at an angle θ to the horizontal. Find the expression for the trajectory of the particle.

2. A particle of mass m is projected from the origin of a Cartesian coordinate system with an initial velocity u at an angle θ to the horizontal. Find the expression for the time of flight of the particle.

3. A particle of mass m is projected from the origin of a Cartesian coordinate system with an initial velocity u at an angle θ to the horizontal. Find the expression for the range of the particle.

4. A particle of mass m is projected from the origin of a Cartesian coordinate system with an initial velocity u at an angle θ to the horizontal. Find the expression for the maximum height of the particle.

5. A particle of mass m is projected from the origin of a Cartesian coordinate system with an initial velocity u at an angle θ to the horizontal. Find the expression for the time of flight of the particle.

6. A particle of mass m is projected from the origin of a Cartesian coordinate system with an initial velocity u at an angle θ to the horizontal. Find the expression for the range of the particle.

QUESTION