

PROBLEMS

1. A particle of mass m moves in a straight line with constant acceleration a . It starts from rest at the origin O at time $t = 0$. Find the distance travelled in time t .

2. A particle is projected vertically upwards with an initial velocity u . It reaches a maximum height h and returns to the ground. Find the time taken to reach the maximum height and the time taken to return to the ground.

3. A particle is projected from the ground at an angle θ to the horizontal with an initial velocity u . Find the time of flight, the range, and the maximum height reached.

4. A particle is projected from the ground at an angle θ to the horizontal with an initial velocity u . Find the time taken to reach a height h and the time taken to return to the ground.

5. A particle is projected from the ground at an angle θ to the horizontal with an initial velocity u . Find the time taken to reach a height h and the time taken to return to the ground.

EXERCISES

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KINGSTON

