



PHYSICS

BOOKS - BAL BHARTI

SPACE MISSIONS

Solved Example

1. Suppose the orbit of a satellite is exactly 35780 km above the earth's surface. Determine the tangential velocity of the satellite



[View Text Solution](#)

2. In the previous example, how much time the satellite will take to complete one revolution around the earth?

Given : Height of the satellite above the earth's surface = 35780 km.

Velocity of the satellite = 3.08 km/sec



[View Text Solution](#)

1. Solve the following problems.

If mass of a planet is eight times the mass of the earth and its radius is twice the radius of the earth, what will be the escape velocity for that planet?



[View Text Solution](#)

2. How much time a satellite in an orbit at height 35780 km above earth's surface would

take, if the mass of the earth would have been four times its original mass?



[View Text Solution](#)

3. If the height of a satellite completing one revolution around the earth in T seconds is h_1 meter, then what would be the height of a satellite taking $2\sqrt{2}T$ seconds for one revolution?



[View Text Solution](#)

