

Chapter 10 Projectile and Satellite Motion
Satellite in Circular Orbit

1. Figure A shows "Newton's Mountain," so high that its top is above the drag of the atmosphere. The cannonball is fired and hits the ground as shown.

- Draw a likely path that the cannonball might take if it were fired a little bit faster.
- Repeat for a still greater speed, but still less than 8 km/s.
- Draw the orbital path it would take if its speed were 8 km/s.
- What is the shape of the 8 km/s curve?



Figure A

e. What would be the shape of the orbital path if the cannonball were fired at a speed of 9 km/s?

2. Figure B shows a satellite in circular orbit.

- At each of the four positions, draw a vector that represents the gravitational force exerted on the satellite.
- Label the force vectors F .
- Draw at each position a vector to represent the velocity of the satellite at that position and label it V .
- Are all four F vectors the same length? Why or why not?

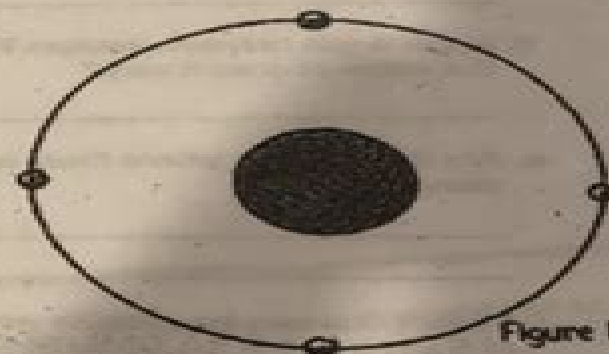


Figure B

- Are all four V vectors the same length? Why or why not?
- What is the angle between your F and V vectors?
- Is there any component of F along V ?
- What does this tell you about the work the force of gravity does on the satellite?
- Does the KE of the satellite in Figure B remain constant or does it vary?
- Does the PE of the satellite remain constant or does it vary?

Conceptual Physics Satellite Motion Answers

Disha Experts



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