

WORK SHEET

PHYSICS

CLASS XI

Motion in a straight line

1. Write the characteristics of displacement?
2. Draw position –time graph of
 - a. Rest
 - b. Uniform motion
 - c. Non uniform motion
3. Draw velocity- time graph of
 - a. Rest.
 - b. Uniform motion.
 - c. Non uniform motion.
4. Draw acceleration- time graph.
5. Define instantaneous velocity.
6. Define average velocity and average speed.
7. Derive equation of motion by graphical method.
8. Derive equation of motion by calculus method.
9. An object throwing upward with initial speed 100m/s, how high will the ball reach.
10. A car moving in a speed 50 km/h driver applied break for 10 second to stop. Calculate stopping distance and retardation or deceleration.
11. An object throwing vertically upward with a velocity 30 m/s from the top of a building 100m. calculate maximum height the object can reach from ground and how long it will take to reach ground,