

L4 PHYSICS HOMEWORK

1. Define the term 'inertia.' and State the law of inertia.
2. A **5 kg** object is acted upon by two forces: **25 N right** and **10 N left**. Find:
 - a) the resultant force
 - b) the acceleration
 - c) the direction of acceleration
3. Why does a passenger move forward when a bus suddenly stops?
4. Why are seat belts important according to Newton's First Law?
5. How does friction affect the motion of an object?