



1) Mark the statements T for 'true' or F for 'false'. Correct. (5points)

- True: also known as the "Principia
- False: independently, although there were a dispute with Gottfried Leibniz.
- False: reclusive and introverted.
- True: are still widely used in physics.
- False: Mathematical principles of Natural philosophy.

2) Complete the following sentences:(5 points)

- The temperature is measured by the scientist.
- The engineer designed the circuit.
- The behavior of light has been observed by the researcher.
- The velocity was being calculated by the physicist.
- The mechanic had been repairing the machine.

3) Reorder the following scientists and mention (1) of their works (6 points)

- Aristotle: viewed the process of learning as one of observation and thinking.
- Humankind: realized that experimentation and observation were equally important.
- Nicolaus Copernicus: introduced the heliocentric system claiming that the planets move around the sun.
- Johannes Kepler: concluded that the planets follow not circular but elliptical orbits with the sun at one focus of the ellipse.
- Galileo Galilei: constructed a telescope in 1609.
- Isaac Newton:

4) Choose two from these items and explain Them: (4points)

- Velocity: The speed of an object in a given direction. It is a vector quantity that includes both magnitude and direction
- Gravity: The force of attraction between two objects due to their mass. It is responsible for keeping us grounded and governs the motion of celestial bodies.
- Energy: The ability to do work or cause a change. It exists in different forms such as kinetic energy (energy of motion) and potential energy (stored energy).
- Mass: the amount of matter in an object. It determines how much force is needed to accelerate the object.
- Force: A push or pull on an object that can cause it to accelerate or change its motion.