Position-Time Graph:

Task 1: Draw a position-time graph for an object that was initially at rest but starts moving with constant acceleration of 0.5 m/s^2 over 30 seconds. Then it continues in constant velocity for 1 minute. After that the object suddenly stops and reminds at rest for 30 s.

- Include a title and appropriate labels with units on the graph.
- Show any necessary calculations you need to carry out in order to plot important points on the graph.

Velocity – Time Graph based on a P/T graph:

Task 2: Convert the P/T graph form task 1into a velocity-time graph.

- Include a title and labels in your graph.
- Remember appropriate units
- Describe the object's velocity over three separate time intervals
- Describe the object's acceleration over three separate time intervals