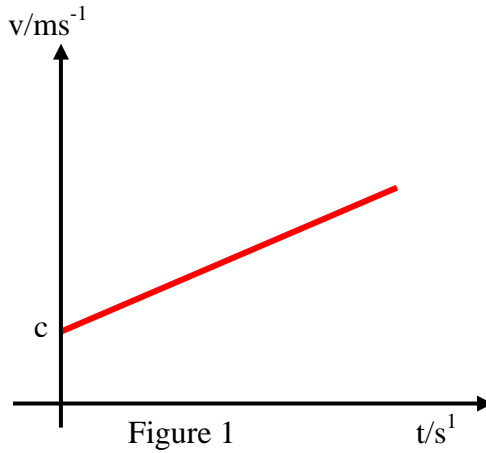


Worksheet 2

1. Figure 1 shows the motion of an object undergoing uniform acceleration.



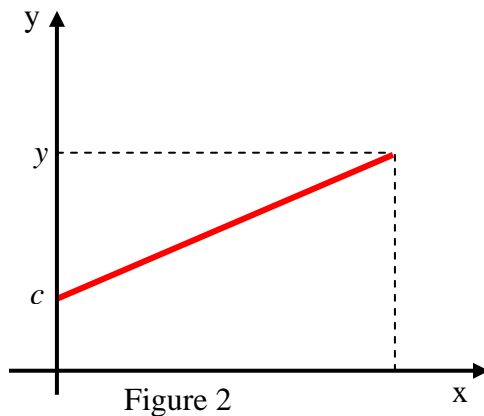
(i) Explain how you can infer that the motion is linear (use your mathematics knowledge).

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(ii) Explain how can you infer that acceleration is uniform (use your knowledge of mathematics to justify your answer).

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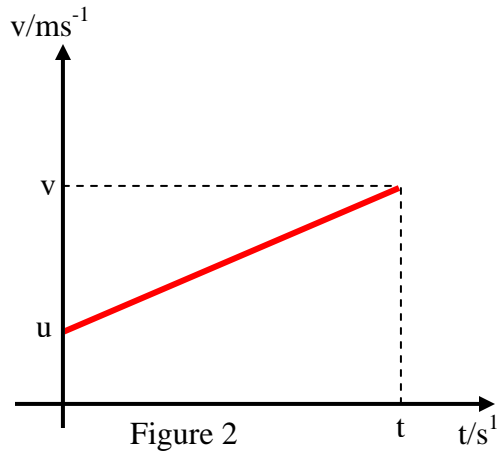
2. With reference to your mathematics knowledge, write down the equation of the straight line. Consider gradient to be 'm'.



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3. (i) Using your answer from question 2, write down an equation for the motion of an object undergoing uniform acceleration. Take acceleration to be 'a'.

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(ii) Is it justified to take acceleration to be constant? Explain.

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