


# Y1 : Submitting Your Work For Marking

1. Identify the problem you have been asked to upload the solution for. For M&R, this is indicated with red text and a box around the question:

## Problem 3

Two particles move along an  $x$  axis. The position of particle 1 is given by  $x_1 = 6.00t^2 + 3.00t + 2.00$ ; the acceleration of particle 2 is given by  $a_2 = -8.00t$  and, at  $t = 0$ , its velocity is  $v_2 = 20\text{ms}^{-1}$ . When the velocities of the particles match, what is their velocity?

For MM1, it is indicated with a key symbol.

3.  Suppose that  $\mathbf{a} = \mathbf{i} + 2\mathbf{j}$ ,  $\mathbf{b} = \mathbf{j} + 3\mathbf{k}$  and  $\mathbf{c} = 2\mathbf{i} - \mathbf{k}$ . Verify that
  - (a)  $\mathbf{a} \cdot (\mathbf{b} \times \mathbf{c}) = \mathbf{b} \cdot (\mathbf{c} \times \mathbf{a}) = \mathbf{c} \cdot (\mathbf{a} \times \mathbf{b})$ ,
  - (b)  $(\mathbf{a} \times \mathbf{b}) \times \mathbf{c} \neq \mathbf{a} \times (\mathbf{b} \times \mathbf{c})$ ,
  - (c)  $\mathbf{a} \times (\mathbf{b} \times \mathbf{c}) = (\mathbf{a} \cdot \mathbf{c})\mathbf{b} - (\mathbf{a} \cdot \mathbf{b})\mathbf{c}$ .


2. Take a photo of your full worked solution for this problem (only this one).

0 : Nothing uploaded

- 1 : Something uploaded, but nothing that makes sense. If they have uploaded a blank page for example, or if they have written the question but not attempted an answer. Or, if they uploaded just the answer, with no working.
- 2 : An attempt has been made to solve the question, but it is not complete. For example (for the first M&R question), they might have done the integral right but not solved the quadratic, or vice versa.
- 3 . The correct answer is given.

3. Upload the file to canvas before 12 noon on Friday.

Due Friday by 12:00 Points 3 Submitting a file upload


MandR-2021-W1-Kinematics.pdf 

File upload

Office 365

Upload a file, or choose a file you've already uploaded.

 Upload file

 Use Webcam

+ Add another file

Click here to find a file you've already uploaded

Comments...

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Submit assignment

The upload will automatically be associated with you – no need to put your name or candidate number on it.

4. Await your grade. You will be awarded a mark out of 3 (within the following week, but probably very quickly).