

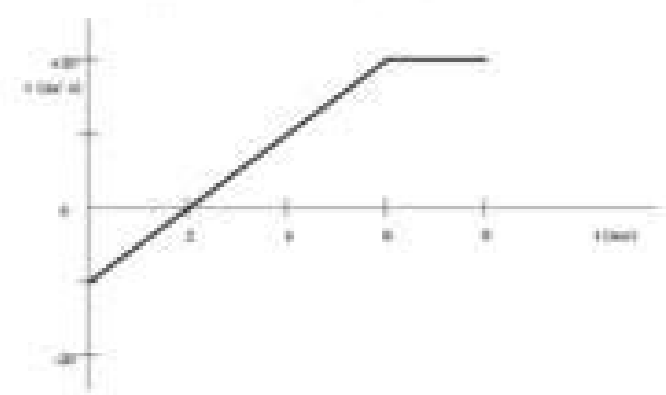
I'm not robot!

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W1.02

Position, velocity & acceleration vs. time (Exam 1 question)

Given the following plot that shows the velocity of an object as a function of time.



1. Determine the motion of the object. Assume that the object's initial position is at  $x = 0$ .
2. Determine the  $\Delta x$  of the object for the first 4 seconds.
3. Determine the  $\Delta x$  of the object for the next 2 seconds.
4. Determine the  $\Delta x$  of the object for the last 2 seconds.
5. Determine the position of the object at the end of each interval.
6. Plot  $x(t)$ .
7. Plot  $a(t)$ .



Fairham College - Fashion Catwalk - Thursday 28 June 2012

Pupil Name \_\_\_\_\_ Year \_\_\_\_\_ Tutor Group \_\_\_\_\_

I confirm that I have parental responsibility for the above named pupil and give my consent for them to take part in the activities outlined above. In the event of illness or accident, I consent to any necessary medical treatment, which might include the use of anaesthetics.

Signed (Parent) \_\_\_\_\_ Name \_\_\_\_\_

Date \_\_\_\_\_ Emergency Contact Number \_\_\_\_\_

You have already given the college medical and contact information for your child. This will be taken on the activity by the activity leader. Please would you confirm below.

\* The contact and medical information I have provided to the college is fully up to date.

\* I would like the activity leader to be aware of the following additional contact/medical information:

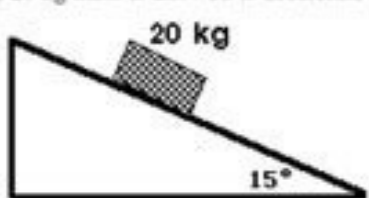
\* Please delete as appropriate:

Please note: any additional contact/medical information will be used only for the purposes of this activity. If you would like permanent changes to be made to the medical and contact records we hold for you child please contact the college office.

Name \_\_\_\_\_ Date \_\_\_\_\_ PM

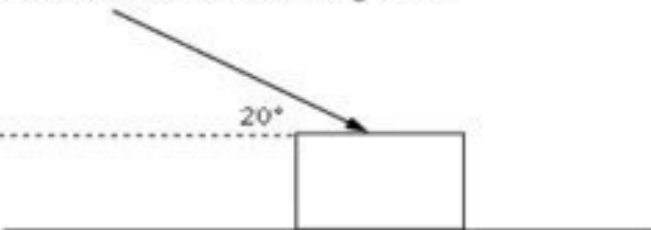
UNIT V: Worksheet 3

1. A 20 kg mass is allowed to accelerate down a frictionless 15° ramp.

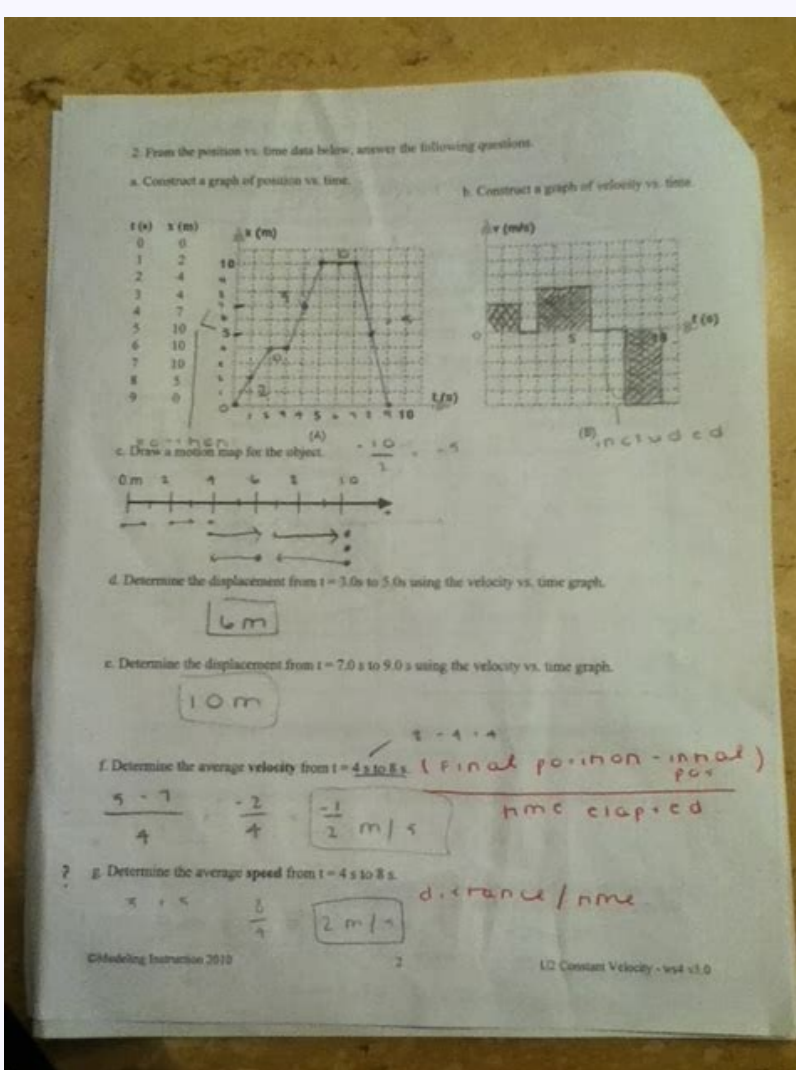


- a. Draw a force diagram for the block.
- b. Determine the value of the x-component of the force of gravity.
- c. What is the acceleration of the block down the ramp?
- d. How long will it take for the block to slide 30.0m?

2. An applied 25 N force pushes on a 5.0 kg block resting on a frictionless horizontal surface. The force is directed downwards at an angle of 20°.



- a. Draw a force diagram for the block.
- b. Determine the x-component of the applied force.
- c. What is the acceleration of the block?
- d. What is the normal force on the block?



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