

General announcements

- *Calendar* was updated two days ago – check it!
- *Don't forget* to look at the XtraWrk for helpful videos, problems to consider, etc.
- *Today:* 1D kinematics lab, how to write up a physics lab, and finishing up the kinematic equations

Fun and games with 1-D kinematics Lab

- *General info:*
 - Lab handout and lab procedure is on Website (no need to print unless you want to)
 - We will talk about write-up format before you leave (and maybe even start it together)
 - Do not use the data posted on Website unless you have permission from me - use what you get today
- *Make sure* everyone in your group has their own copies of the graphs BEFORE you leave!

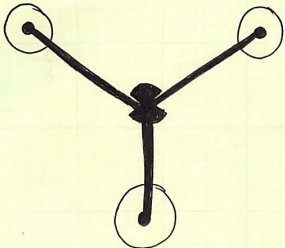
Lab write-up for L-1

- Use the template, or recopy similarly to the engineering pads you just received (these are to be used for all labs, please)
- For all labs, “blurb” your answers to the analysis questions. Make sure you number to match the lab questions!
- Attach all data tables and/or graphs to the back.
 - If taking data from a graph, make sure to circle and label the data points used every time
- Same format for every lab’s cover sheet – feel free to illustrate!

LATO NA

BACK TO THE FUTURE

WITH OUR HANDY
FLUX
CAPACITOR



Olivia Hudnut
Partner Alexis Genske
H. Physics, P. C
3/14/12
Lab 23


DAYS LATE: 0

H. PHYSICS
FRIDAY LAB
5 PERIOD

THE potential and electrical fields of a flat, finite, conducting disk
a.k.a.

HELLL!

(L-15)



Put out the flames, quick before Pearlie is burned to a bacon-like crisp!

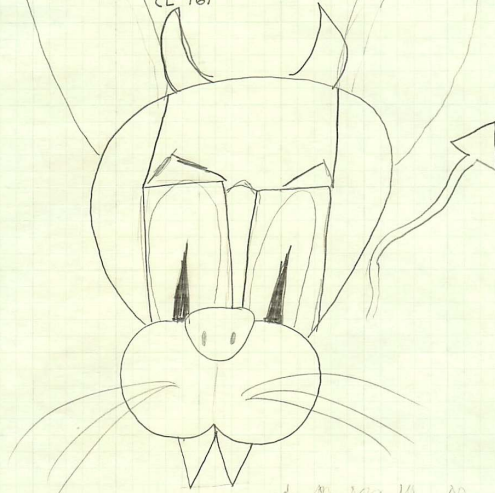
PEARLIE JEFFERS
PARTNERS: YAU
MARCH 11, 1988
HBL FROM: FRICKA

AP Physics
B Period
Thurs. Lab but switching to Fr.

Late: 0 days

The Potential and Electrical Fields of a Flat,
Finite, Conducting Disk

(L-16)



The ORIGINAL lab from

HELL

Hannah Frank
Partner: everyone and
no one
February 21, 2005
Help from: Mr. White

ADVANCED PHYSICS -
THURSDAY LAB
- PERIOD 8 -

LATE: 0 DAYS

FREE FALL WITH FRICTION

I'M FREEEEEEEE ... I'M FREE

FALLIN' (with friction) p.



TOM PETTY AND THE HEARTBREAKERS PERFORM ONE OF THEIR
LESS KNOWN HITS: "FREE FALLING WITH FRICTION"

→ PRADIP CHANDRASOMA
MATHNOL: KELLY THOMPSON
OCTOBER 20, 2004
HELP FROM: SCOTT CHACON

LATE: 0 days

PHYSICS
Tuesday Lab
B Period

NEWTON'S SECOND LAW
(L-3)

SILVIE ANDREWS,
PARTNER: Jackie Q and
Audrey K,
October 5, 1997
Help from:
Charles & Steve J.
N.

0 DAYS LATE

ADV. PHYSICS
A
THURSDAY
LAB

Kinematics
L-2

NON-TOXIC SUGAR
FREE
LESS FAT
MORE FILLING
"I-CAN'T-BELIEVE
IT'S-NOT
BUTTER"
WHOLE SOME
STRING-N'-PULLEY
GOODNESS.

EMPTY CORNER

JENNIFER WANG,
PARTNER: SEAN POLGAL
9/19/97
HELP = SEAN, DANE

© 1997. No rights reserved, but get your own SHIT! pig

LATE DAYS 0

HONORS PHYSICS
WEDNESDAY LAB
PERIOD A

Death to
CENTRIPETAL
FORCE (!)
(L-9)

→ Ava Casados
Partners: Eileen
Nov 1 2006
Help From:
Eileen Kim

ADVANCED PHYSICS
Thurs Lab
p. 6

Conservation of Energy is

... Not Opening Your Physics
Book.

CHRISTOPHER LEE
PARTNERS:
DE KON
NOV 14, 1995
HELP! DE KON, Hillema
Mr. Fletcher senior
patrio

L-7

Not late

Physics Wed. Lab

LAB
L-5

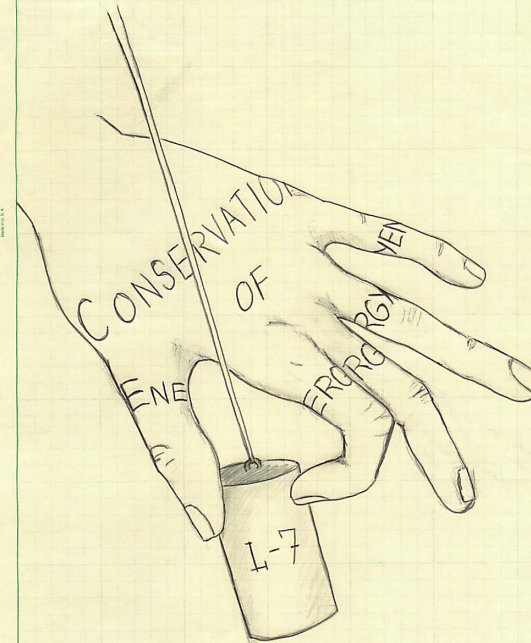
centrifugal force is a fictitious force

Centrifugal force is a fictitious force that appears to act on objects moving in a circular path. It is caused by the inertia of the object and the rotation of the frame of reference. Centrifugal force is always directed radially outward from the center of rotation. Centrifugal force is not a real force, but it is a useful concept for describing motion in a rotating frame of reference.

→ Katy Polsony
partner: Melinda Wood
help from: Saira Mohamed,
Alicia Barman

LATE: 0 days

PHYSICS
TUESDAY LAB



Sylvie Andrews
PARTNERS:
my whole lab
November 12 1997
Help from - Dad,
Mr. Fitch, Katie N.

LATE: 0 days

Physics
Tuesday Lab
(Period B)

(L-2)

Kimberly DeQuattro
Partner: Michelle Adams
Date: 10-1-98
Help From: Mr. Fletcher

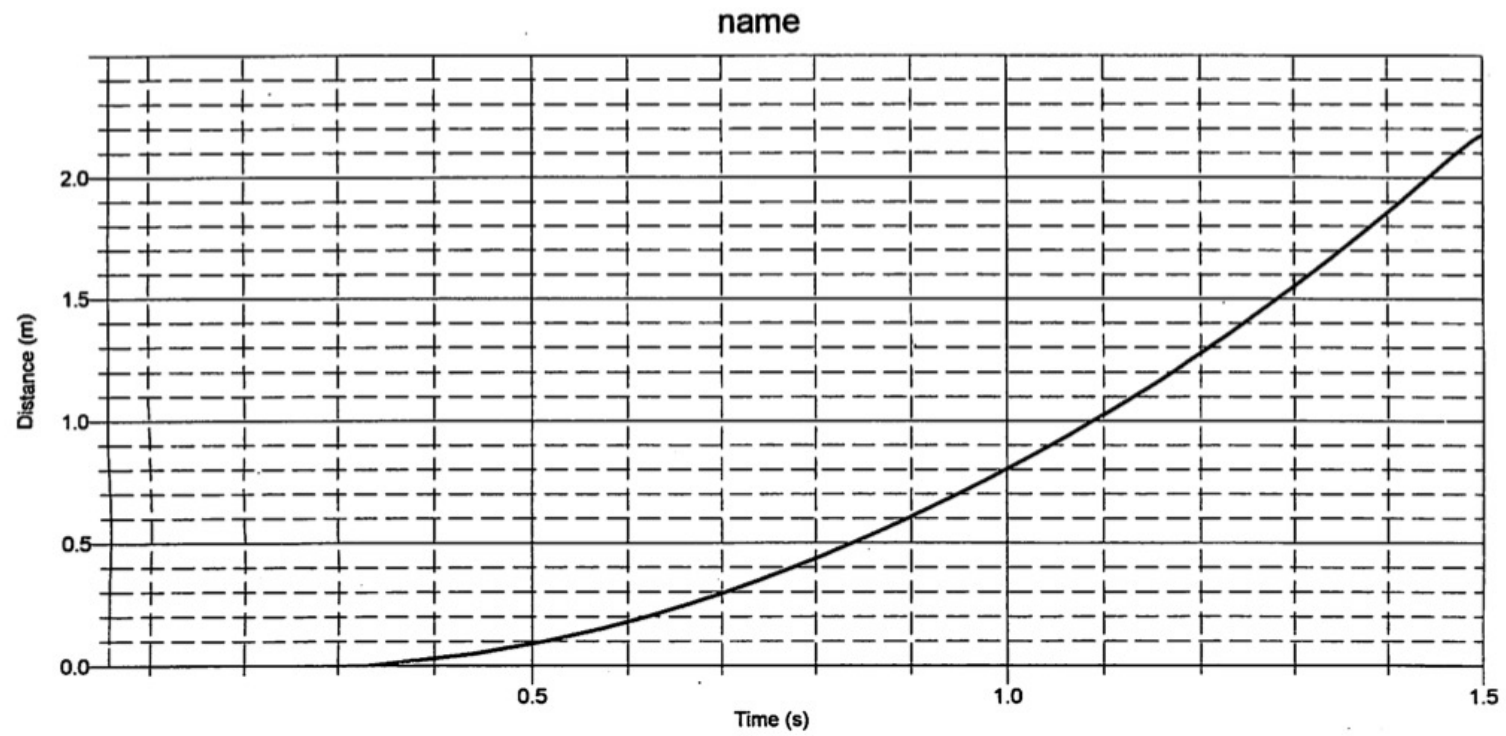
late: 0 days

Advanced Physics
-Friday Lab
(E period)

(L-3)

⇒ Vicki CHAN
partner: Pearlé Jeffers
Elisa Kim
October 16, 1997
help from:
Kentaro Suzuki

Sample data



Sample data

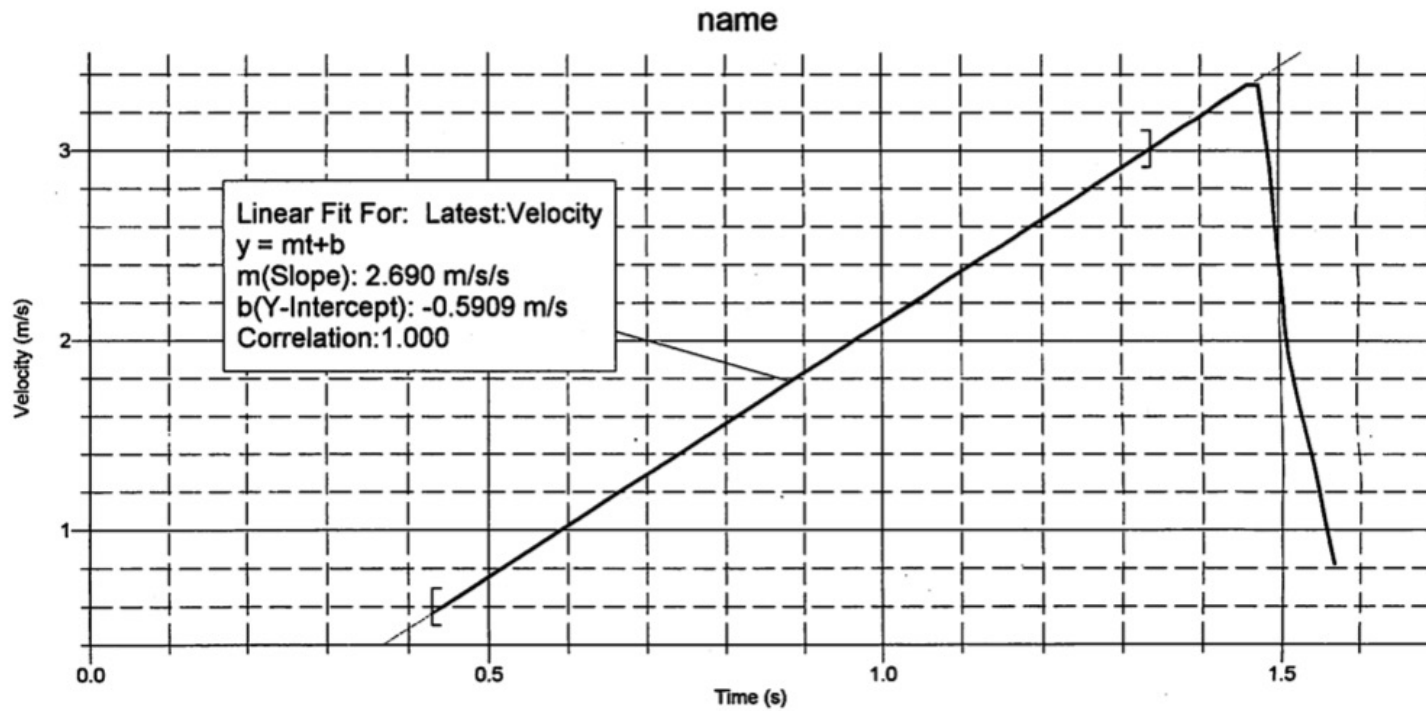
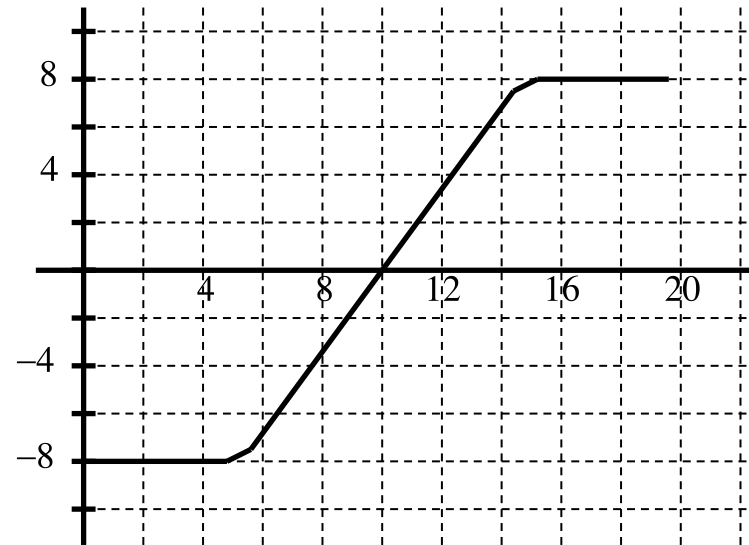
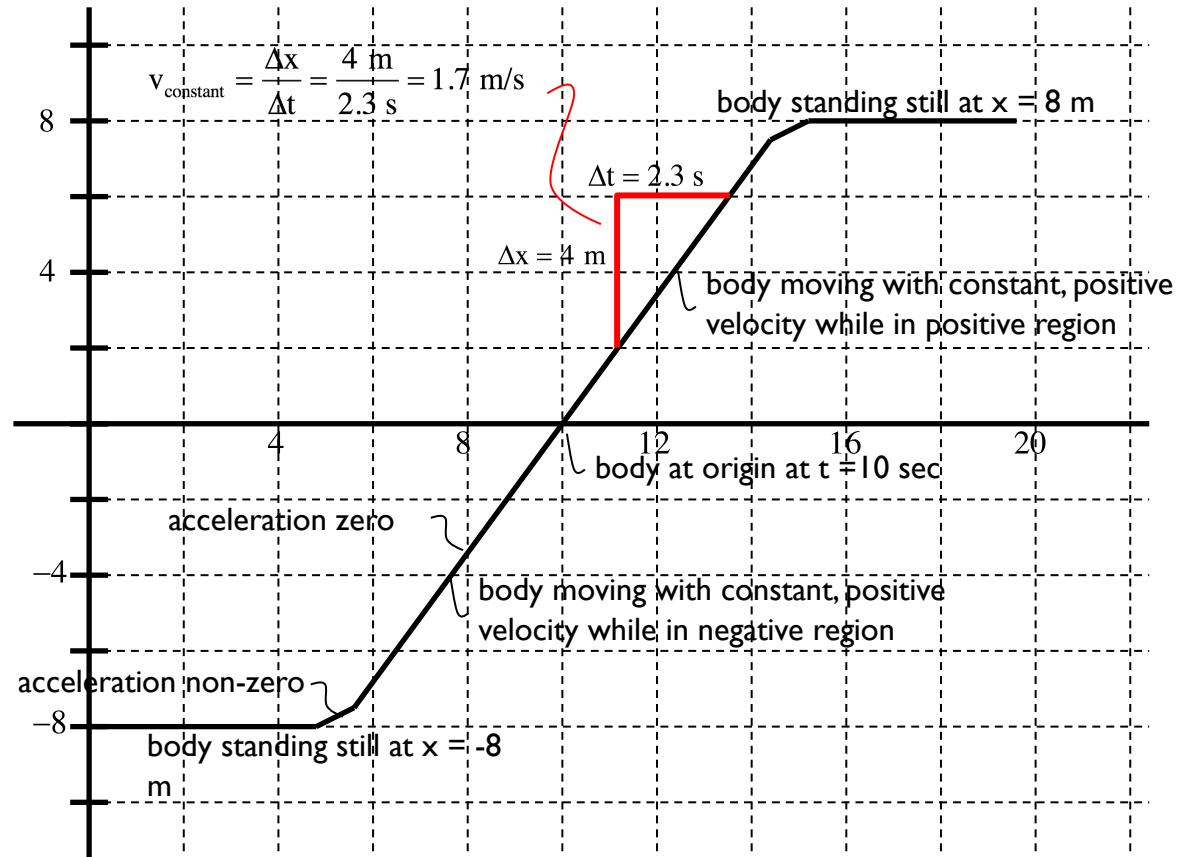


Figure 2.24 from XtraWrk

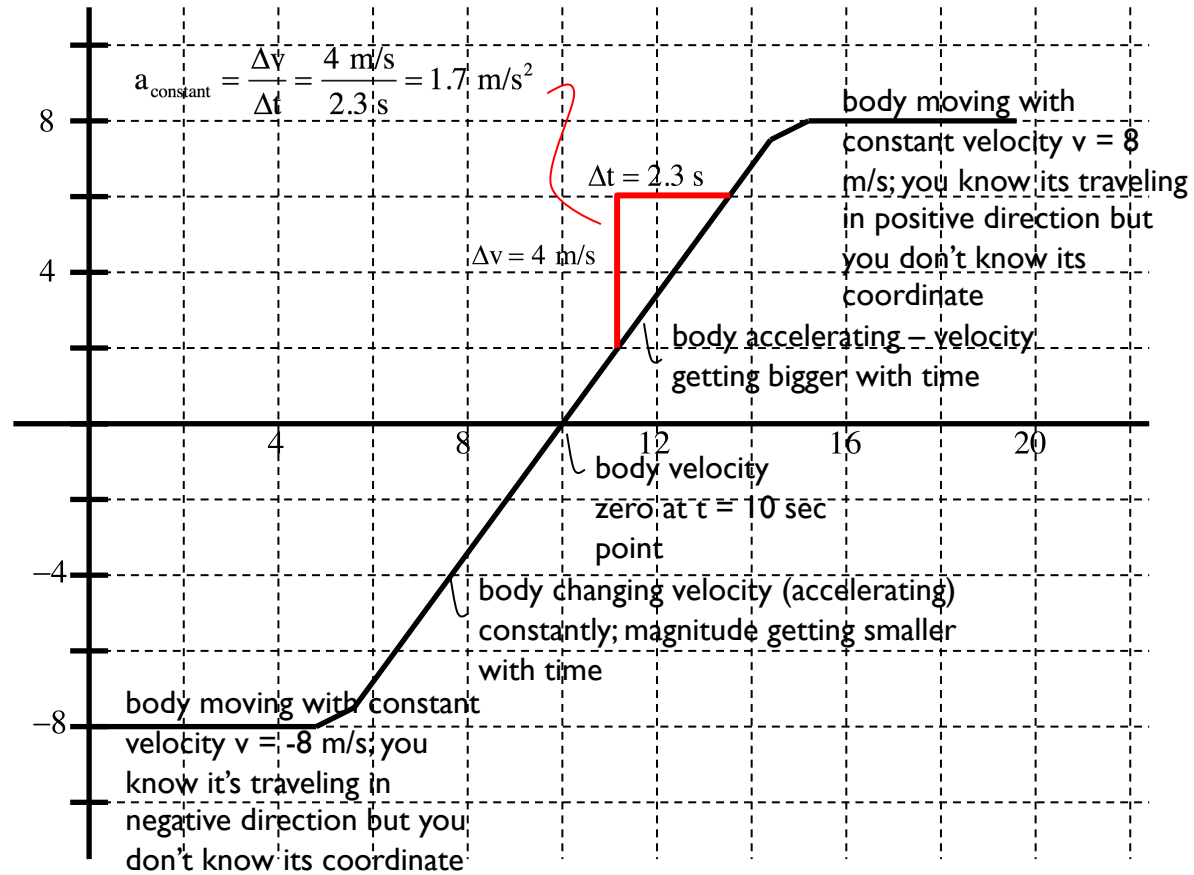
- What does this graph represent if it is a:
- Position vs. time graph?
- Velocity vs. time graph?
- Acceleration vs. time graph?



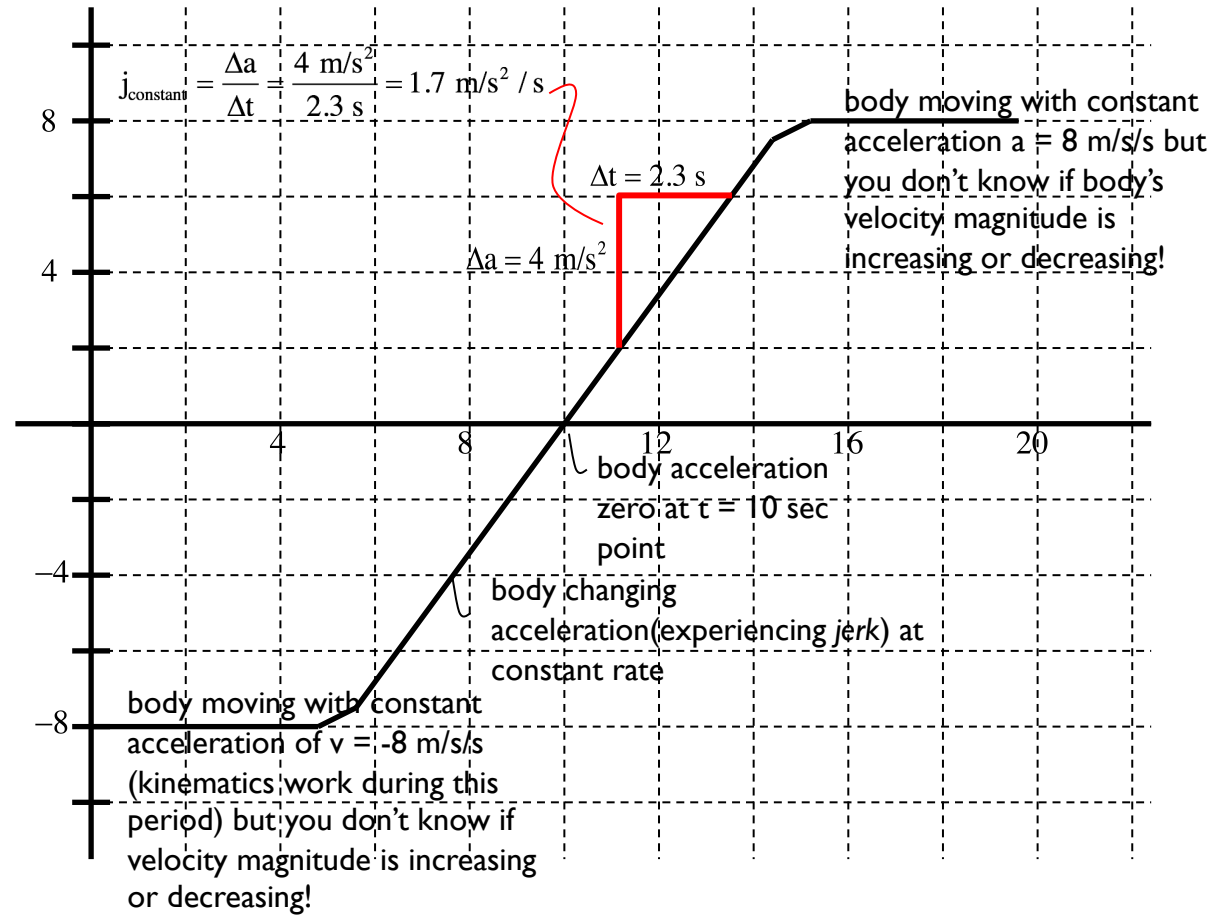
1.) As *position versus time* graph:



1.) As *velocity versus time* graph:



1.) As *acceleration versus time* graph:



Sign conventions

- The sign of a vector quantity indicates its **direction**.
- This requires that you clearly indicate your coordinate axes!
- What does it mean to have:
 - A positive velocity but negative position?
 - Negative displacement and a positive position?
 - A positive velocity and positive acceleration?
 - Negative velocity but positive acceleration?
 - Negative velocity and negative acceleration?