

You can draw here

Physics 111 - Class 1B

Logistics & Diagnostics

Do not draw in/on this box!

September 10, 2021

You can draw here

You can draw here

Logistics/Announcements

- No Labs or Tutorials in the first week!
 - Labs will begin in Week 2, Tutorials will begin in Week 3.
- Lab Canvas session is separate from Lecture/Tutorial
- If you are Tutorial-exempt, register for XM2 - even if you are tutorial exempt, you can still attend Tutorials!
- There is no textbook to purchase for this course!
 - Now available in the Sidebar.

Logistics/Announcements

- You will need a UBC Student Email to access Ed Discussion.
 - In your Learning Log this week, you can provide an alternate email address.
- HW01 is now available on PrairieLearn! Please complete it ASAP
- Test 0 (not for marks) will be available at 6 PM today until Sunday at 6 PM (it is 30 Math questions)
- Learning Log 1 is now available (on Gradescope)
- Week 2 content will be available soon (on Canvas)

Other Logistics

HW 1 - Introduction to Prairie Learn

canvas.ubc.ca/courses/81870/assignments/1041342

0 bytes | 46/0

Search

Profile

Settings

UBC

Account

Dashboard

Courses

Calendar

Inbox

History

Help

PHYS 111 001 2021W1

Assignments

HW 1 - Introduction to Prairie Learn

2021W1

Home

Announcements

Assignments

Course Content

Ed Discussion

Textbook

Gradescope

Zoom

HW 1 - Introduction to Prairie Learn

Due

Saturday by 6pm

Points

100

Your first HW (Introduction to Prairie Learn) is now ready!

You can access it by clicking this link:

https://ca.prairielearn.com/pl/course_instance/2344/assessment/16785

Make sure to log in via CWL!!

Note: this HW01 is not for marks, and is for completion only so you can get familiar with the system.

Reset

100 %

08:01

ca.prairielearn.com/pl/course_instance/2344/assessments

PrairieLearn

Physics 111, 2021WT1

Assessments

Gradebook

Firas Moosvi student

Assessments		Available credit	Score
Homework			
HW1	HW1 - Introduction to PrairieLearn	100% ⓘ	0%

PrairieLearn

Physics 111, 2021WT1

Assessments

Gradebook

HW1

Firas Moosvi student

HW1: HW1 - Introduction to PrairieLearn

Total points: 0/10

0%

Available credit: 100%

Question	Value	History	Awarded points
Example Question			
HW1.1. Intro-Instructor	1		0/1
HW1.2. Intro-ClassTimes	1		0/1
HW1.3. Intro-Contact	1		0/1
HW1.4. Intro-Labs	1		0/1
HW1.5. Intro-Elements	2		0/2
HW1.6. Intro-ExplicitMultiplication	1		0/1
HW1.7. Intro-newVariant	1		0/1
HW1.8. Intro-selectTrue	1		0/1
HW1.9. File_Upload	1		0/1

Attached files

ca.prairielearn.com/pl/course_instance/2344/instance_question/8953275/

PrairieLearn

Physics 111, 2021WT1

Assessments

Gradebook

HW1

Firas Moosvi **student**

HW1.1. Intro-Instructor

Who is the course instructor for Physics 111 ?

☐ (a) Dr. Sheldon Cooper

☐ (b) Dr. Isaac Newton

☐ (c) Dr. Rosalind Franklin

☐ (d) Dr. Daniel Shiffman

☐ (e) Dr. Firas Moosvi

☐ (f) Dr. Donna Strickland

Problem is licensed under the [CC-BY-NC-SA 4.0 license](#).

CC

BY

NC

SA

Save & Grade 5 attempts left

Save only

Additional attempts available with new variants ⓘ

Homework 1

Assessment overview

Total points: 0/10

Score: 0%

Question

Value: 1

History:

Awarded points: 0/1

Report an error in this question ⓘ

Previous question

Next question

Gradescope

PHYS 111 001 2021W1 Intro

PHYS 111 001 2021W1 Dash

<

>

⏮

⏭

↺

🏠

🔒

www.gradescope.ca/courses/4867

🔍

👤

🔒

gradescope

PHYS 111 001 2021...

PHYS 111

Dashboard

Regrade Requests

INSTRUCTOR

Firas Moosvi

Account

PHYS 111 001 2021W1

Fall 2021

NAME	STATUS	RELEASED	DUE (PDT)
Learning Log 1	No Submission	SEP 09	1 day, 10 hours left SEP 11 AT 6:00PM LATE DUE DATE: SEP 13 AT 6:00PM

🔧

🖨

📱

☁

📷

🖥

🖼

⏮

Reset

110 %

07:57

PHYS 111 001 2021W1 Intro

Submit Learning Log 1 | Gradescope

< > ⏮ ⏭ ↺ 🏠

🔒 www.gradescope.ca/courses/4867/assignments/20110/submissions/new

☰ 📖 🔍 👤 🔒

0/9 Questions Answered

☰ >

📊

📋

🔄

Learning Log 1

Q1 Task 1: Active Learning and Peer Instruction
4 Points

First, Watch this video and then reflect on it

SERIOUS SCIENCE

Peer Instruction for Active Learning - Eric Mazur

⌚ ↗

Watch later Share

Watch on YouTube

[Watch this video](#)

It's about 14 minutes long and it's pretty compelling. You can watch it at 1.5x or 2x speed if you like, but please do watch it to the end!

The speaker is Dr. Eric Mazur, and the topic is his experience in "discovering" Active Learning and Peer Instruction.

Once you're done with the video, there are a few reflection questions for you to answer below.

Q1.1 Reflection
4 Points

In 3-5 sentences, reflect on the video and think about how you can learn from Dr. Mazur's experience to succeed in this course. Here are some questions you may want to consider in your response:

- What are your thoughts on Dr. Mazur's experience?
- What is your initial reaction to the idea of students doing things, and working with their peers during class time rather than listening to an instructor talk for an hour?
- Have you ever experienced a class with active learning or peer instruction? How did it feel? What did you think?
- How do you think Active Learning and group work can work in an online environment?

Note that there are no correct or incorrect answers, this exercise is meant for you to think about your learning and your education. I will grade these based on the thoughtfulness of the responses, and the quality of reflection rather than the number of words.

👤

🖨 📄 ☁

📷 🖼 🖨 ⏪ Reset ⏩ 90 % 07:58

New Thread

Search

Filter

Pinned

Welcome!

General

DrMoosvi (Firas)

STAFF

13d

9

1

This Week

Calculator

Tech Support

Anonymous

2d

1

1

Last Week

physics lab

Individual

Rileigh Payne

3d

1

29 Aug 2021

Live lectures?

Logistics and Course Fee...

Anonym...

13d

1

6

Welcome! #1



DrMoosvi (Firas) STAFF
13 days ago in General

UNPIN

STAR

WATCHING

270
VIEWS



Hello everyone!

1

We will be using Ed Discussion for our class Q&A, it's really great! I hope you like it

This is the best place to ask questions about the course, whether about content, or logistics. You should ask every question here, and the only thing you need to decide is whether your question should be public (helps everyone) or private (applies only to you, for e.g., regrade requests, personal circumstances etc...)

You will get faster answers here from the teaching team as well as other students here on Ed Discussion - all of your TAs are on here as well. Neither TAs nor instructors will be responding to emails or Canvas messages (unless it's a legitimate emergency, or if you cannot access Ed Discussion).

Here are some tips:

- Do a quick scan to search before you post, it's possible your question was already asked. If it has, add a response to it, rather than creating a new question
- Click the heart emoji ❤️ for questions and answers you find/found useful
- Try to answer questions you feel comfortable answering and just try your best! if it's not quite correct, TAs and instructors will be offering helpful edits and corrections. This will be a learning experience as well.
- For each questions that were answered by students (high recommended!), the first answer that we think is fully correct, we will "Endorse" it - this means that the answer was approved by an instructor
- Share interesting course related content with staff and peers - ask lots of questions and let's build a community together!

Here is a quick overview of the main features of Ed Discussion:

1. Interface

Interface

Clean and intuitive.

Start a new thread

Open Ed Discussion

COURSES

CS 101

ECON 102

MATH 201

ENGG 202

Playground

CATEGORIES

General

Lectures

Tutorials

Problem Sets

Assignments

Midterm

Exam

ed Playground – Discussion

New Thread

Search

Filter

Pinned

Welcome!

General Scott Maxwell

This Week

Quadratic equation

Lectures – 101 Anonymous 2h 4 0 4

Supersonic flow

Assignments – 81 Anonymous 2h 2 0 2

Quadratic equation

Anonymous 2 hours ago in Lectures – 101

ENDORSED

PIN

STAR

WATCHING

242 VIEWS

Hi all,

4

How do we solve $ax^2 + bx + c = 0$?

Comment Edit Delete Unendorse

1 Answer

Scott Maxwell 2 hours ago

Good question! You can use the quadratic formula:

2

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Comment Edit Delete Endorse

Add comment

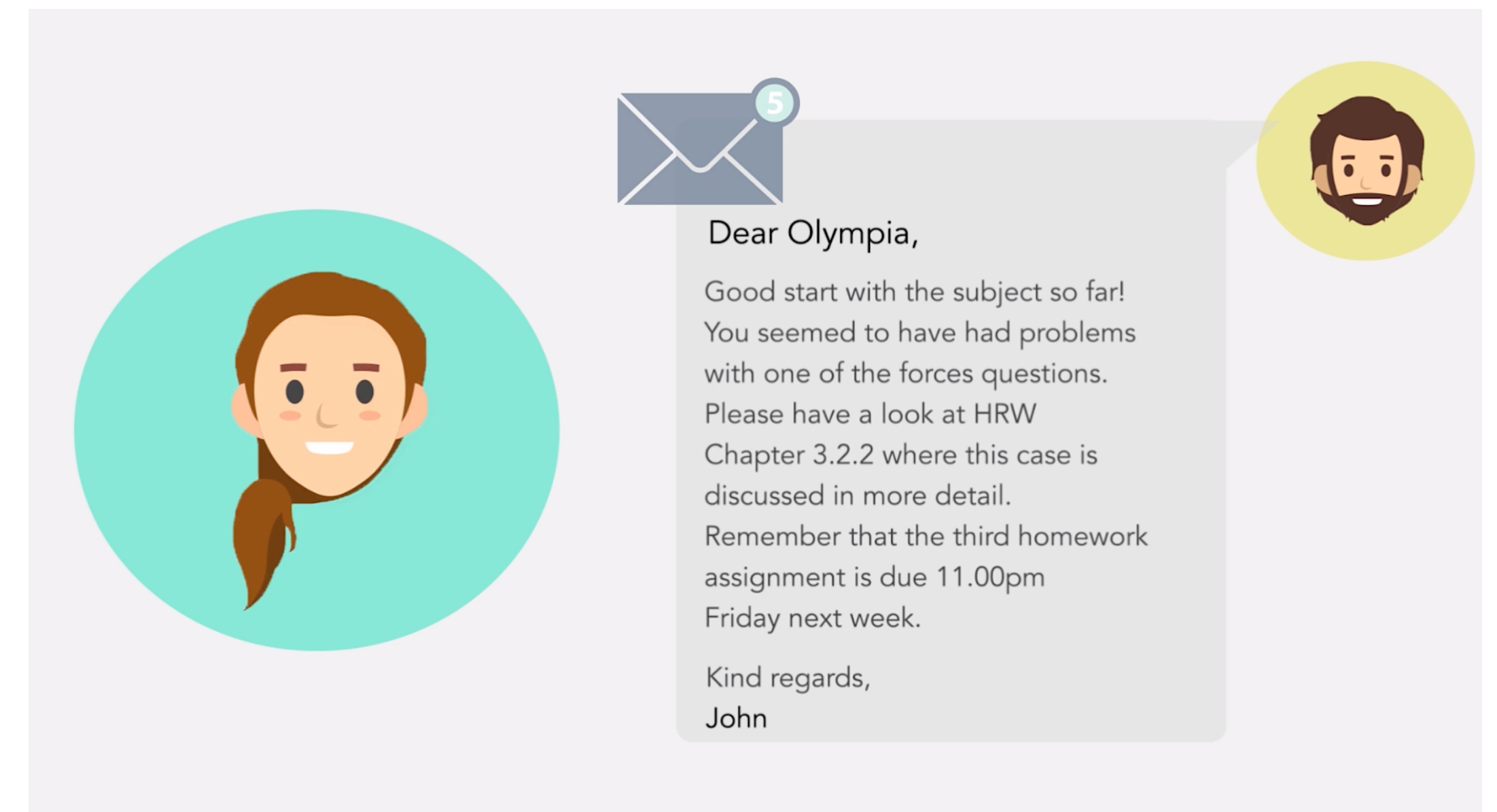
Emily Kewig 2 hours ago

Also note the graph of a quadratic function is called a parabola and has this general shape:



Exploring Personalized Feedback

- OnTask is a free and open source platform that enables data-driven personalization of feedback
- Helps instructors communicate more efficiently and effectively with students
- Allows instructors to provide high quality and personalized feedback to students, increasing motivation for learning and enhancing student-instructor rapport
- OnTask messages can include:
 - Weighted grades on assignments/exams,
 - Participation and attendance marks,
 - Study tips,
 - Office hour reminders, and
 - Other materials related to the course



An example of an OnTask message: <https://www.ontasklearning.org/>

openstax™

Hi Firas

< University Physics Volume 1

Introduction

Table of contents

Preface

▼ Mechanics

▼ 1 Units and Measurement

Introduction

1.1 The Scope and Scale of Physics

1.2 Units and Standards

1.3 Unit Conversion

1.4 Dimensional Analysis

1.5 Estimates and Fermi Calculations

1.6 Significant Figures

1.7 Solving Problems in Physics

► Chapter Review

► 2 Vectors

► 3 Motion Along a Straight Line

► 4 Motion in Two and Three Dimensions

► 5 Newton's Laws of Motion

► 6 Applications of Newton's Laws

► 7 Work and Kinetic Energy

► 8 Potential Energy and Conservation of Energy

► 9 Linear Momentum and Collisions

► 10 Fixed-Axis Rotation

► 11 Angular Momentum

Search this book

My highlights




Figure 1.1 This image might be showing any number of things. It might be a whirlpool in a tank of water or perhaps a collage of paint and shiny beads done for art class. Without knowing the size of the object in units we all recognize, such as meters or inches, it is difficult to know what we're looking at. In fact, this image shows the Whirlpool Galaxy (and its companion galaxy), which is about 60,000 light-years in diameter (about 6×10^{17} km across). (credit: modification of work by S. Beckwith (STScI) Hubble Heritage Team, (STScI/AURA), ESA, NASA)

Chapter Outline

[1.1 The Scope and Scale of Physics](#)

[1.2 Units and Standards](#)

[1.3 Unit Conversion](#)

[1.4 Dimensional Analysis](#)

[1.5 Estimates and Fermi Calculations](#)

[1.6 Significant Figures](#)



Assessing the 1st year physics program

Research Study

To improve physics teaching at UBCO, we are doing a two-part diagnostic to:

- help us stay current on what students know coming into the course
- understand the impact of different teaching methods
- assess the quality of the program
- understand how the program serves different populations

Your instructor (me) will not see the results until final exam grades have been submitted!

This diagnostic is NOT FOR MARKS!

You do NOT need to study as this is just a baseline for how you think.

Incentive: 0.5% per diagnostic

Diagnostic (Part 1) will happen in class on Friday (about 45 mins)

See you on Monday!

Start the Diagnostic

If you are accessing this outside of lecture, please send me a private Ed Discussion message for the link!

The survey will be active until Monday at 8 AM.