MCF3M Culminating Assessment - Math Journal

This assessment is worth 15% of your final mark.

Throughout the course you kept a math journal. Suggestions were made at the end of each learning activity regarding what you should add to it. Now it's time for you to review your math journal and select 2 entries from each unit (8 entries in total) to submit as part of your culminating assessment.

Here is a reminder of the 4 units in the course:

- Introduction to Quadratic Functions
- Analyzing Quadratic Functions
- Exponential Functions
- Trigonometry and Sinusoidal Functions

Each journal entry you submit should include evidence of learning from that learning activity. Think about what would be most helpful as review if you returned to your journal at a later date. Did you devise a memory trick to serve as a reminder for the steps of a process you found challenging? Were there particular types of questions where you frequently made errors? You may include personal reflection: do you think this content is useful in your daily life, or might it be in the future? Why or why not? You could even use emojis to rate each aspect of the content throughout this assessment !

The more you personalize your journal entries, the more they will promote your learning.

Possible ways to show your learning include picture(s) of worked examples, diagrams, written explanations, or a summary sheet.

Your math journal entries can be presented in a variety of ways. They do not all need to be in the same format.

Here are some suggestions:

- handwritten journal
- online journal
- video recordings
- pictures
- audio recordings

The content should be organized in the way that makes the most sense to you and will likely vary, depending on the topic.

Some ideas include:

- tables
- T charts to compare/contrast
- mind maps
- flow charts

Each journal entry should include the following:

- unit and learning activity (1)
- description of the task, as written in the learning activity (2)
- the required content, written by you (3)
- evidence of your learning (4)

How you present parts 3 and 4 is up to you!

Here is an example:

> **Unit 2 Learning Activity 2: Domain and Range (1)**
>
> In your math journal summarize the meanings of the domain and range of a graph, how to determine domain and range from a graph vs. from an equation, and how domain and range can change when describing a real-life situation. (2)
>
> *The required content, written by you, would go here.* (3)
>
> *Evidence of your learning would go here. Note that it might make more sense to you to include this along with the required content.* (4)

You have had the opportunity to submit four journal entries for feedback based on the rubric for this assessment. Review the feedback and make sure you understand the expectations for this assessment. Chances are, you will decide to make any needed changes to those four journal entries and submit them as part of this activity. Then, you would be halfway done!

Please read through the rubric below to ensure full understanding of the assessment guidelines.

MCF3M Culminating Assessment Rubric: Math Journal	
Success Criteria **(Please note: Not all success criteria apply to every journal entry)** **The selected journal entry shows:**	**Levels** **The selected journal entry demonstrates the success criteria:**

Knowledge/Understanding • knowledge of relevant and appropriate skills and procedures • knowledge of relevant and appropriate facts and terms • understanding of the meaning of the mathematical content	
Application • relevant and appropriate selection of facts, skills, procedures • relevant and appropriate connections made between math concepts • relevant and appropriate connections made between math and the world outside the classroom	Level 4 (80-100) to a thorough/high degree Level 3 (70-79) to a considerable degree
Thinking • logical interpretation of problem • evidence of modelling the problem, drawing conclusions, or justifying reasoning	Level 2 (60-69) to some degree
Communication • math vocabulary used accurately • math notation and symbols used appropriately • algebraic solutions, graphs, charts, diagrams organized and clearly written • mathematical thinking expressed clearly • reflection on mathematical thinking expressed clearly	Level 1 (50-59) to a limited degree