

# Research Notes

Due: Friday, 27 January 2023 before 17:00 EST

**Objective:** Find and submit two published mathematical papers that are (somewhat) related to the topics in this course. Include a page of comments highlighting the key features of the articles.

## Ideas and Suggestions:

- Mathematicians traditionally use either **MathSciNet** (need to login via a Queen's account) or **zbMATH** to search for published articles. Sometimes other sources like **Google Scholar** or **JSTOR** can also be useful.
- Mathematical journals such as *American Mathematical Monthly*, *The Mathematical Intelligencer*, or *Mathematics Magazine* strive for original articles that are accessible to a wider audience. The right article from one of these journals might be ideal.
- Look for articles that could serve as a prototype for your paper.
- Choose papers that communicate to you.

## Questions to consider:

- Why did you choose these particular papers?
- What makes your chosen articles interesting?
- What about these articles surprised you?
- Do the chosen articles have all of the features expected in your final paper?
- How self-contained are the articles?
- What background do your papers assume of their readers?
- How does one gauge the quality and influence of a published article?
- Is there any evidence that the articles you've chosen had an impact?
- Are some journals more reliable than others?

# Checklist for Project Research Notes

Name: \_\_\_\_\_

Trait	Score	Weight	Grade
<i>Discovery</i> : Two short published research papers that illustrate the various aspects of a well-written mathematical article.	1 2 3 4 5	1×	
<i>Resourcefulness</i> : Are the examples interesting in some way?	1 2 3 4 5	1×	

**Total:**

Comments:

### Explanation of Scores

5	Strong	Shows control and skill in this trait; many strengths present.
4	Competent	Strengths outweigh the weaknesses; a small amount of revision is needed.
3	Developing	Strengths and need for revision are about equal.
2	Emerging	Need for revision outweighs strengths.
1	Not Yet	A bare beginning.