

Assignment #3A: Quadrat-art

[20 marks]

Assignment Objective

- Your task is to create your own artwork using **only** parabolas.
- Use your knowledge of transformations to create all the equations you need.

Process

1. Start by sketching, on graph paper, what your design will look like with the approximate equations. **Show me your completed sketch before you start using technology.**
2. See the attached guide (courtesy of Ms. Bourassa of mathgeek.ca) for an example of how to use Desmos to create some artwork.
3. You will need to create a Desmos account to save your work. Fortunately, you can “log in with Google”, so use your BGCDSB account as your login.
4. When finished, hand in this cover page (with your rough work attached), and share your demos sketch with me (and others, if you like).

Rubric

Topic	Level 0	Level 1	Level 2	Level 3	Level 4	Grade
Rough Work [K/U]	minimal sketch, no equations	minimal sketch, a few equations	detailed sketch, a few equations	detailed sketch, lots of equations	highly detailed sketch, most equations present	/ 5
Complexity [ATIPS]	5 or fewer parabolas	5 to 10 parabolas	10 to 15 parabolas	15+ parabolas	20+ parabolas	/ 5
Technical Appearance [ATIPS]	Intersections are very rough, many small gaps and overlaps	Intersections are rough, some small gaps and overlaps	Intersections are good, few small gaps or overlaps	Intersections are smooth	You can hardly tell it's drawn with parabolas	/ 5
Overall Appearance [C]	Looks awful	Competent	Aesthetically pleasing	Elegant	People would buy this at an art gallery	/ 5
Overall:						/ 20