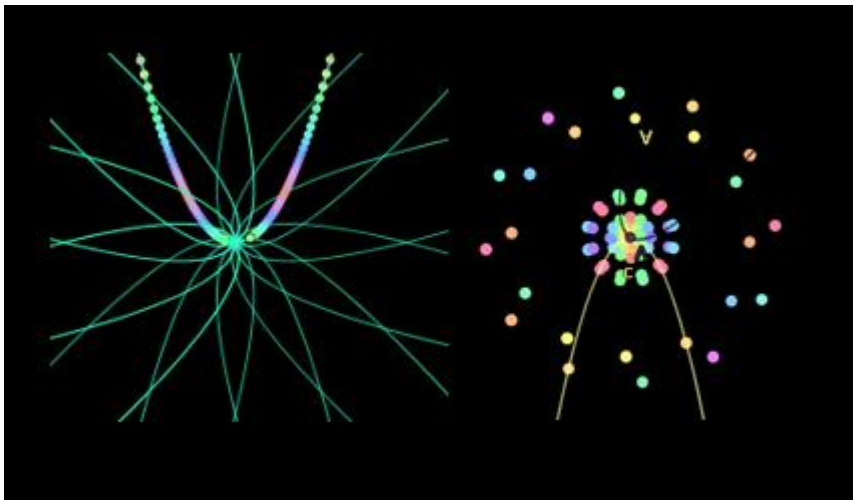
Quadratic Growth

Teacher Norma Lisa Neiman (IT)

Quadratic Growth



LESSON PLAN: 9th grade Students - 13-14 years old

SUBJECT: Quadratic Growth

LESSON IDEA Quadratic Growth and flower petals

AIMS:

- Understanding quadratic growth
- Using Rotations about a point
- Understanding angles
- Mastering GeoGebra using sliders and transformations

PROCESS:

1. We analyzed quadratic growth and solved problems about quadratic growth
2. We constructed quadratic functions using GeoGebra
3. We analyzed Rotations and Simmetries
4. At home the students worked on an art production based on the idea of Quadratic Growth and Flower Petals.

Video tutorial: flower rotating a quadratic function

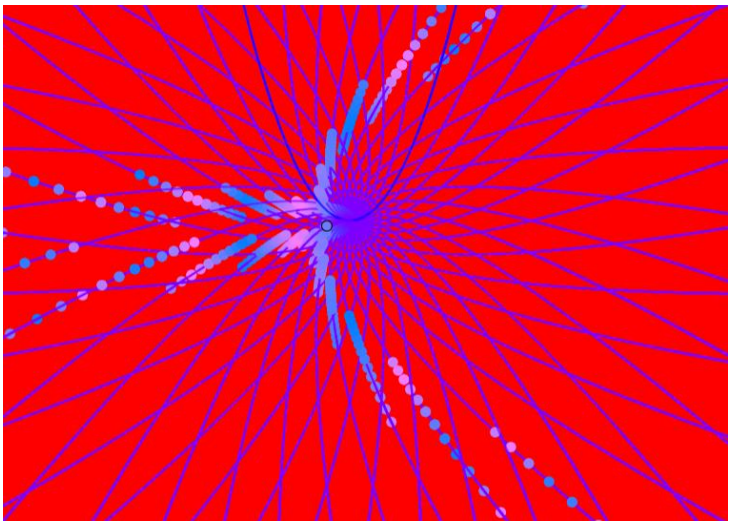
https://youtu.be/2B_q7V23wfU

Students' Outcomes

Alessandro Rabiti

Flower

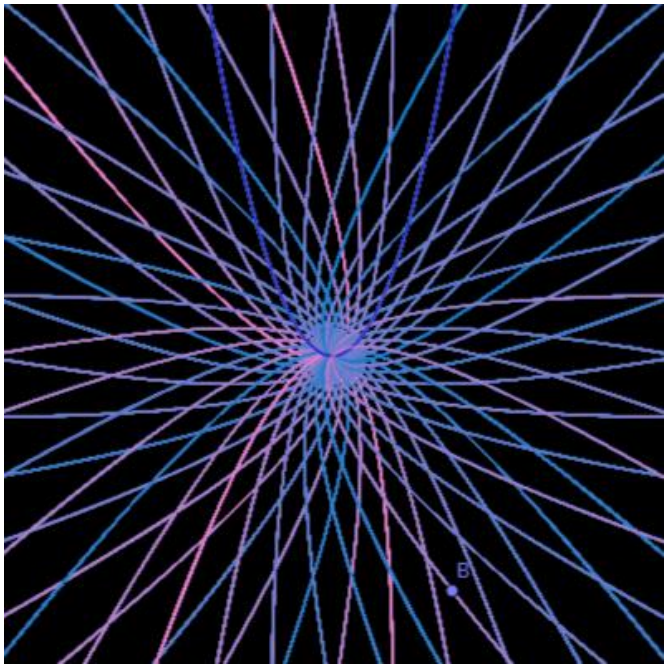
https://www.geogebra.org/classic/nard8wyg



Daniele Baffi

Flower

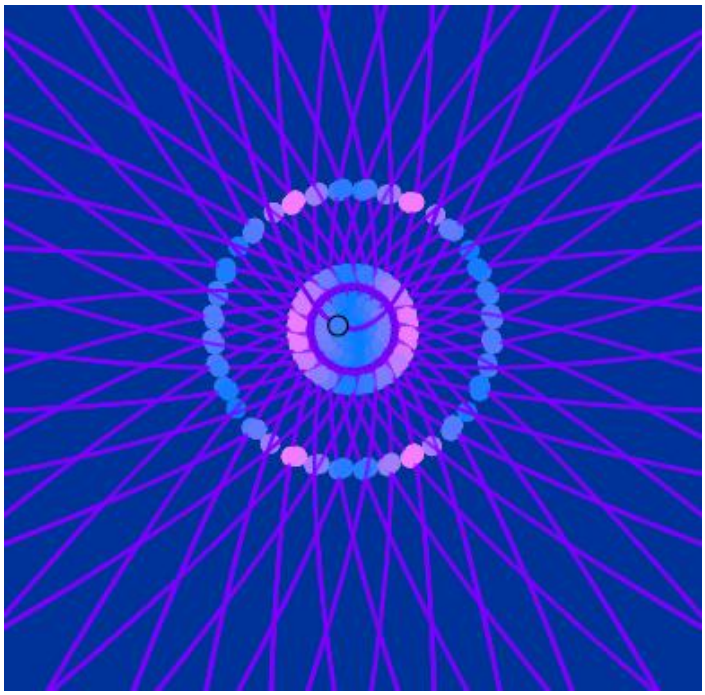
https://www.geogebra.org/m/wrfq3pqr



Ilaria Petrucci

A flower based on a rotation of a quadratic function

https://www.geogebra.org/m/cvw7y9xy



Marina Ciavarella

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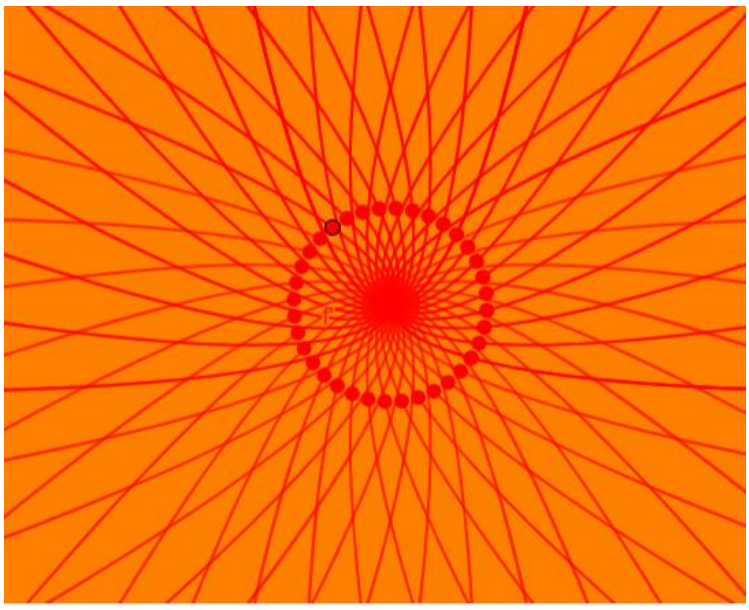
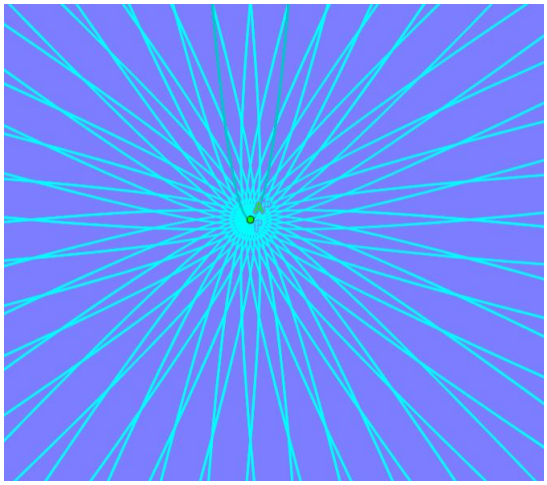


Niccolò Laguzzi

https://www.geogebra.org/classic/dmj9sveq



Franchini Damiano

https://www.geogebra.org/classic/juchuy6q