

**Calculator Art Grading Rubric**

Final Grade
/50=

Artist : \_\_\_\_\_

DUE: FRIDAY, MAY 20th

Name of Grader: \_\_\_\_\_

Project must be done on TI-83 or TI-84 calculator. **Projects NOT done on a TI graphing calculator will not be graded** unless permission is given by a teacher in advance.

**Part 1 – Inspiration (5 points Total)**

One week after the project is assigned you will submit a picture of what you are trying to create in your calculator. If you change your subject, you must get approval from your teacher.

My subject...

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Total Points out of 5 (Graded by Teacher on Friday, May 6th)

**Part 2 – Sketch Design (10 points Total)**

(2 pts) The graph submitted is a final draft on graph paper (or done in Desmos and printed)

(2 pts) “Tick Marks” on Axes are labeled

(2 pts) Points are accurately graphed

(2 pts) Functions are clearly labeled to match the labels on the equations sheet.

(1 pt) No visible erase marks

(1 pt) Lines were drawn with a ruler

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Total Points out of 10

**Part 3 – The Equations (30 Points Total)**

At least 15 total equations are used (-1 pt for every missing equation)

(2 pts) The x and y values for the initial window are indicated and NEVER changed

(1 pt) Degree or Radian Mode must be specified.

(2 pts) EVERY Function is written (or typed) legibly

(2 pts) Functions are written as they should be typed into the calculator

(1 pt) Abbreviated labels are included for each function (to match the sketch)

(1 pt) A t-interval and t-step are included with EVERY Parametric

(1 pt) A theta-window and theta-step are included with EVERY Polar

(1 pt) You tell when you STORE your drawing so that your peer grader can do the same.

(2 pts) Function Mode is Used

(2 pts) Parametric Mode is Used

(2 pts) Polar Mode is Used

The following Types of functions are included: (1 pt each)	The following transformations are used: (1 pt each)
<input type="checkbox"/> Linear <input type="checkbox"/> Quadratic <input type="checkbox"/> Square Root <input type="checkbox"/> Cubic <input type="checkbox"/> Cubic Root <input type="checkbox"/> Exponential <input type="checkbox"/> Logarithmic <input type="checkbox"/> Trigonometric <input type="checkbox"/> Absolute Value <input type="checkbox"/> Ellipse	<input type="checkbox"/> Hyperbola <input type="checkbox"/> Circle <input type="checkbox"/> Rose Curve <input type="checkbox"/> Dimpled Limacon <input type="checkbox"/> Convex Limacon <input type="checkbox"/> Inner Loop Limacon <input type="checkbox"/> Cardioid <input type="checkbox"/> Archimedes Spiral <input type="checkbox"/> Lemniscate <input type="checkbox"/> Other _____

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Total Points out of 30

**Part 4 – The Design on the calculator (5 Points Total)**

(2 pts) This drawing is of the subject approved by the teacher.

(1 pt) “The Inspiration” picture is provided (printed or on phone).

(1 pt) The calculator drawing looks like “The Inspiration.”

(1 pt) The picture in the calculator is free of stray marks/lines/curves.

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Total Points out of 5

I would give this Artist a Final Grade of \_\_\_\_\_. Please write any comments below.