5 individual worksheet in calculus:

Edited at 3am 6 January 2017.

s is your student number. k = s mod 10000. T = s mod 100. m = s mod 35. a = s mod 25.

L = s mod 10. $d\_{2}=\frac{T-L}{10}$. e = s mod 8. m7 = s mod 7. m6 = s mod 6. m4 = s mod 4. m3 = s mod 3.

1. Calculate hash function for your s.

http://www.fileformat.info/tool/hash.htm

2. Perform errors analysis for the linear, quadratic and cubic approximations for (1+1/T)6.

3. Perform the errors analysis for the integral error bounds for x6 @[0, 1] taking 2T intervals.

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/error4bounds4integration.docx

**Zimmermann:**

4. Solve Zimmermann Polygonal Areas problem.

http://azspcs.com/Contest/PolygonalAreas

Submit as many different areas solutions as possible in the form (1,2), (2,6), (3,4), (4,5), (6,3), (5,1) going clockwise or anti-clockwise along the border of the polygon for 11, 17, 23, 29, 37, 47, 59, 71, 83, 97, 113, 131, 149, 167, 191, 223, 257, 293, 331, 373, 419, 467, 521. For each problem we need maximum and minimum areas polygons.

http://discrete4math.weebly.com/uploads/2/5/3/9/25393482/11polygonal11areas11zimmermann11.txt

2. Is it easier to find the smallest or the largest areas for each of these cases? Why?

m6 = 0: 5: [1.5, 7.5]

m6 = 1: 7: [5, 18.5]

m6 = 2: 11: [41.5, 58.5]

m6 = 3: 17: [113.5, 127.5]

m6 = 4: 23: [239, 240.5]

m6 = 5: 37: [641, 641]

These numbers are correct at 5pm Jakarta time 5 January 2017.

These numbers may change later. Be prepared for the changes.

You must find the method working for any numbers.

http://azspcs.com/Contest/PolygonalAreas

Project:

5. Develop your project into a better research paper.

Deadline: 7 January 2017.