A individual task in calculus 2.

Edited at 6am 13.3.2017.

No copying. Work independently.

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. . e = s mod 8. m7 = s mod 7. m6 = s mod 6. m4 = s mod 4. m3 = s mod 3.

Differential equations:

1. Find y(x) from

a. y´ = Ty.

b. kP´ = TP(k-P), P(0) = T

c. T + y2 + xyy´ = 0.

d. ky´´ + Ty´ + Ly = 0.

e. ky´´ + Ty´ + Ly = Tx.

2. Solve: Ty'' + my' + Ly = kx

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/any4solution4non-homogeneous4differential4equation.txt

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/formulas4complex4roots4characteristic4equation.docx

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/4complex4roots4characteristic4equation.txt

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/characteristic2equation2solve4real4roots.txt

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/formulas4realx4roots4characteristic4equation.docx

http://calculus12s.weebly.com/uploads/2/5/3/9/25393482/formulas4same4real4roots4characteristic4equation.docx

Project:

3. Improve your project.

Write the proposal.

Prepare to present your project to a native English speaking doctor of science.

Deadline: 18.3.2017.