3 calculus individual task:

Edited at 3am 23.5.2017.

Cartesian coordinates:

1. Are the points collinear?

(6,4),(-7,8),(0,11)

2. Are the points collinear?

(7,2,1),(5,4,12),(4,7,-9)

3. Are the points coplanar?

(5,-3,6),(-4,8,1),(9,-8,-3),(6,2,9)

Integrals:

4. Calculate

Heat Equation:

5. Solve the Heat Equation.

Theorems:

6. Explain Green’s, Stokes’ and Gauss Laws.

Maxwell’s Equations:

7. How are Maxwell’s Equations solved?

Deadline: 31.5.2017.