**6 derivations individual task in calculus:**

Edited at 12noon 11 July 2016.

n is your student number.

k = n mod 10000. T = n mod 100. m = n mod 35.

a = n mod 25. L = n mod 10. . *m3* = n mod 3.

**Derivatives:**

**Optimization:**

Given the perimeter P = *T*, find the maximum areas of the rectangle, the right angled triangle and any triangle.

Given the surface area S = *T*, find the maximum volume of the cylinder and the cone.

Find the ratios everywhere.

**Deadline: 31.7.2016.**