

Tough Nut to Crack – Application of Differentiation

To be submitted by midday Wednesday 25th November 2015.

The prize will be a book to be decided.

Let $y = e^x$. The curvature of y is given by

$$C(x) = \frac{y''(x)}{\left[1 + (y'(x))^2\right]^{\frac{3}{2}}}$$

At what point x does $C(x)$ have maximum curvature?

The solution needs to be word processed and emailed to me at k.singh@herts.ac.uk