

**PROBLEM OF THE MONTH**  
**SEPTEMBER 2013**

**TRANSCENDENTAL EQUATION**

Solve in  $\mathbb{R}$ :

$$6^x - 5^x - 3^x + 2^x + 3x(x - 1)(2x - 5) = 0.$$

Please place your solutions in my mailbox outside *LC411 (D. Savu)* by noon on *October 15<sup>th</sup>*.