- 1. (littleoh:sindeg3) Is it true that $\sin(x) x + \frac{x^3}{3!} = o(x^4)$?
- 2. (littleoh:cosdeg2) Is it true that $cos(x) - 1 + \frac{x^2}{2} = o(x^3)$?
- 3. (littleoh:exp2deg4) Is it true that $e^{x^2} = 1 + x^2 + o(x^3)$?
- 4. (littleoh:expsqrt) Show that

$$e^x - \sqrt{1 + 2x} = o(x)$$