Assignment # 7.
Due March 10, 17:00

Problem 1.   Evaluate the following integral

a. $\displaystyle\int t^2\, e^t\, dt,$ **b.** $\displaystyle\int t\, e^{t^2}\, dt,$ **c.** $\displaystyle\int \sin(\ln x)\, dx,$

d. $\displaystyle\int \sin^5 x\, \cos^2 x\, dx,$ **e.** $\displaystyle\int (6x^2+2)\cosh(x^3+x+1)\, dx,$

f. $\displaystyle\int \frac{x}{\sqrt{3-2x-x^2}}\, dx,$ **g.** $\displaystyle\int \frac{1}{x^2\sqrt{x^2+4}}\, dx.$