Problem 1

1.a

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1.b

Random math test1

$$\phi(t) = \frac{1}{\sqrt{2\pi}} \int_0^t e^{-x^2/2} dx$$

Problem 2

2.a

Some inference rule

$$\frac{\Gamma \vdash e_1 : \tau_1 \quad \Gamma \vdash e_2 : \tau_2}{\Gamma \vdash \underbrace{\langle e_1, e_2 \rangle}_e : \tau_1 \times \tau_2} \, \mathsf{Meh}$$

2.b

This is some code trace for fact 2

Problem 3

3.a

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¹inspired by https://ilorentz.org/beenakker/MO/fonttest.tex