Problem 1

August consumes hamburgers H and ice cream I. His utility function is $U(H, Z) = H^2 + 2I$. Prices: $p_H = 50$ and $p_I = 25$ CZK. <u>His income is 300 CZK.</u>

What is the optimal consumption of H and I?

Problem 2

- María consumes tacos T and nachos N. Her utility function is $u(T, N) = \min\{T + 2N, 2T + N\}$ Her income is 20 CZK.
- a) What is her optimal bundle if $p_T = 2$ and $p_N = 3$
- b) What is her optimal bundle if $p_T = 1$ and $p_N = 3$

Thomas spends 2000 CZK on tennis trainings. His rich uncle offers him to

- pay him an allowance of 500 CZK per weak,
- or to **subsidize** a quarter of his weakly training costs.

Thomas has no kink in his IC, and trainings are a normal good for him.

Does he prefer the allowance of the subsidy?

Problem 4

Hana spend or her income on economics textbooks E and other goods y. Her income is 30000 CZK per month.

An average economics textbook costs 1000 CZK.

At this price she buys 10 textbooks.

Suppose all textbooks are free, but there is a tuition fee of 14000 CZK per month. Does this change make Hanka better off?