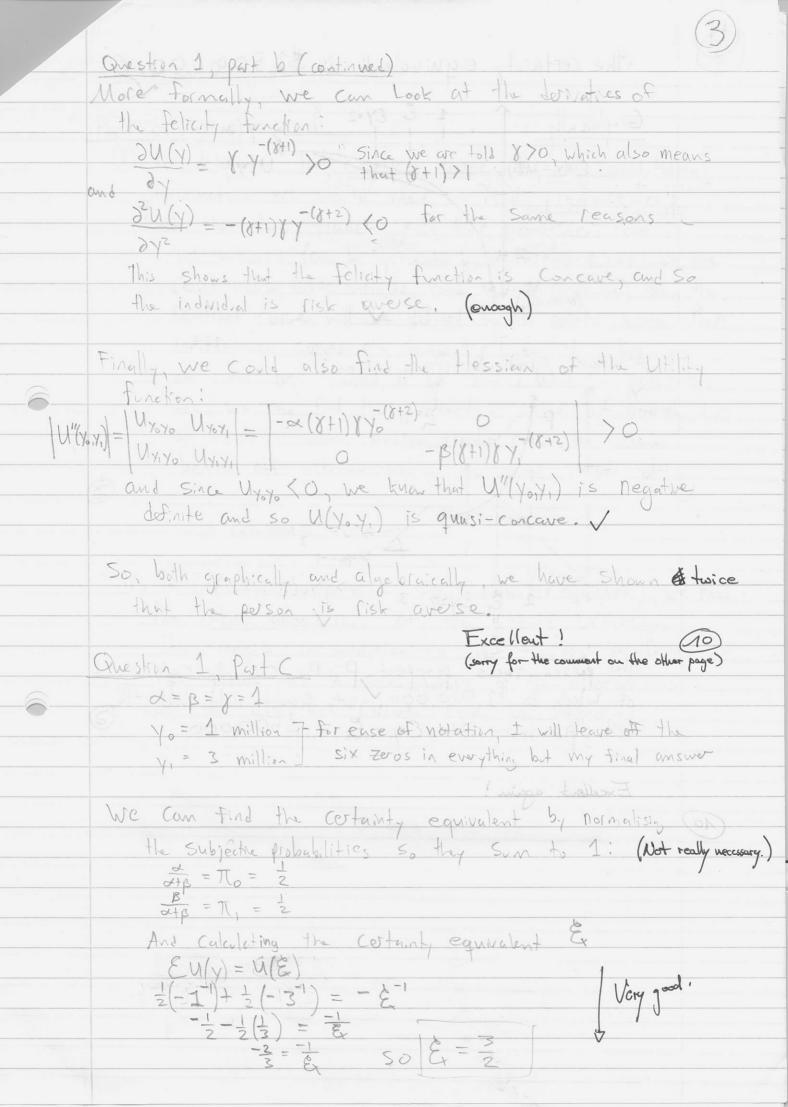
Examples of Solution to 2nd graded exercise

Attached you find the solution of a student to Q1 b)-c) and Q2) a)-c)i) that I found particularly good. He combines a rigorous mathematical argument with a clear economic intuition. I explicitly do not suggest to study from this and it is not necessarily spot-on in every part of it. I rather posted it since I believe that some of you have difficulties to answer the questions in an appropriate way and I think you might learn from it what we consider to be a very good way of answering questions in this course.

The person is list averse, be can tell this from the Shape of his indifference curves, in that the are quite clearly quasi-concave (it is clear from looking at the indifference curves that the "at-least-as-good-as" Set is Convey, -> You should show this mathematically OR analyse Looking at the following figure: concavity of the felicity fund-mathematically. We can see that a certain prospect B, or any point between A and B, is preferred to A. Additionally, it we look at the felicity function: ruly) we can clearly see that

It is Concave.



the certainty equivalent is \$1,500,000 Graphically: (millionths) Altorate graphical Representation. (speq table sights transmiss of the certainly equivalent of which is \$1,500,000. We could add that the Tisk premium is Ey- & = \$500,000 Excellent again!

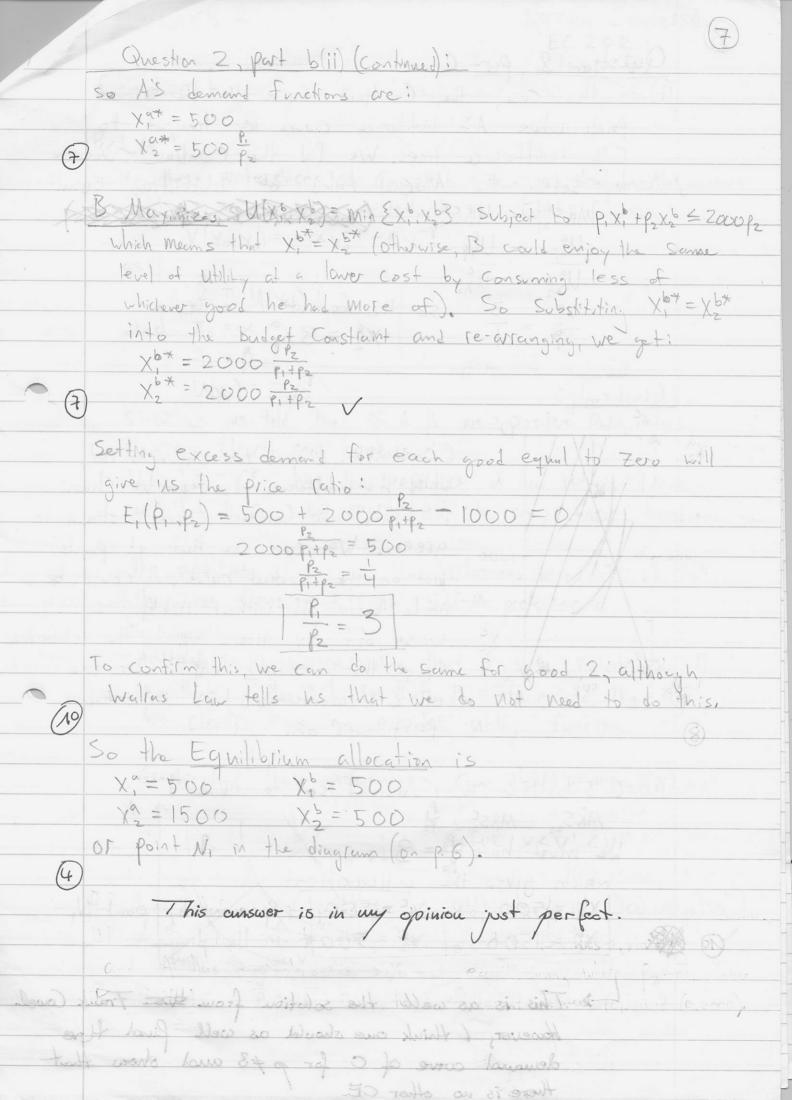
of the two traders. It their preferences are "well-behaved" (can be represented by indifference cures that are Continuous, differentiable, and grass-concave) then the Contract curve will be defined by the points where their indifference curves are tangent. Even if preferences are not well-behaved if we know what the preferences are not well-behaved if we know what the preferences are we can find the Contract a curve by looking for all points at which neither trader can be prude better off without making the 6th worse off.

(ii) To find the Competative Equilibrium (or equilibria), we need the initial allocation of the goods between the traders in addition to the traders' preferences. This allows us to see which of the allocations on the Contract Curve Can be supported

Vory good.

Question 2, Continued Why do you draw the blue indifference curves assymmetric?

It's as well in the volutions, but I have diagram: don't see why that should be. Drawing an Edgeworth The Contract curve (Shown in green) is the Set of points defined by the "corners" of B's Leoptief indifference "curves" (Shown in red). Taking On as the origin we can write the equation of the -P=-3 Contract Curve as X2 = 1000+ Xa This is the Contract curve because at point not on the Contract curve, A could be made better off without Making B any worse off by a move to the "Corne" of whichever of B'S Moifference curves the point happens to be on. Although these are not strictly speaking Points of tangency, the idea is similar in that the Contract curve is the set of points where B's indifference "Curves" touch A's indifference Cours at a single foint. So Very good. Finding A's demand functions: Max X, x x 2 St. P, X, + P 2 X 2 ≤ 1000p, The Lagrangian is! J(X,,X2;P,,P2) = X, x2 + 10(1000p, - P, X, - P2x2) FOC: 3x = X2 = 10 p, =0 3x = Xx - / b 3x = 1000p, -p, x, -p2x2=0 and so Xax = /apz Plugging into the constraint & re-arranging: 1 = 500



Question 2, part C was long do yould (i) In this case the Contract Cyrve is the set of Points where A'S indifference Curves we tangent to C's indifference lines. We find the contract cure we by Setting the Marginal Rates of Substitution Equality Maa UKa Xa 3 So the Contract (were is Xa = 3 X, bad Graphically: C'S indifference lines are shown in red, while As indifference curves are Shown in blue. The Contract Cure is shown in green. We can see that at points not on the contract curve, A could be made befor off without making a worse off by moving up to the indifference Curve that is tangent to whichever one of C's indifference lines the initial Point was on.