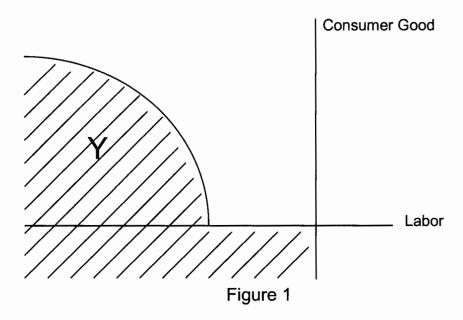
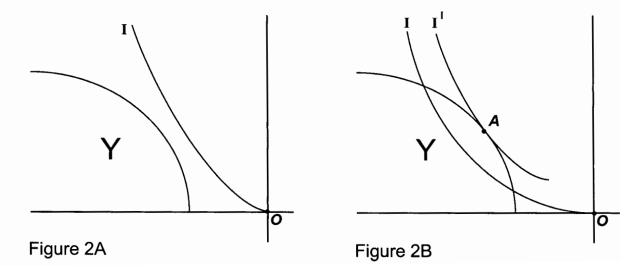
One consumer economy – monotone, strictly convex preferences.

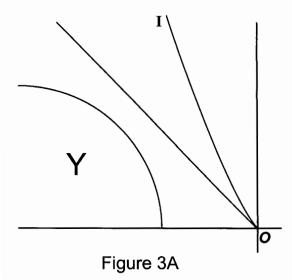
Nonconvex production possibility set **Y** – fixed cost and diminishing marginal product of labor.

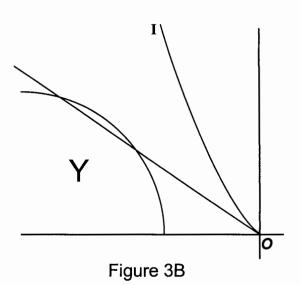


Two candidates for Pareto optimum: O, A



If **O** is Pareto optimal, it may or may not be sustainable as a competitive equilibrium.





If **A** is Pareto optimal, it may or may not be sustainable as a competitive equilibrium.

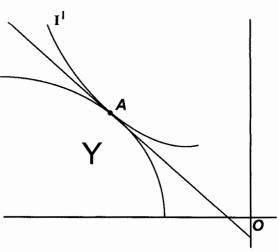


Figure 4A

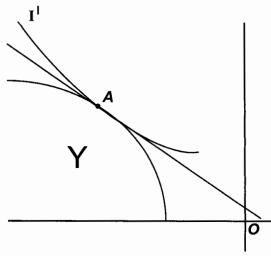
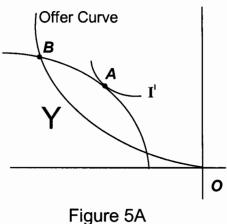
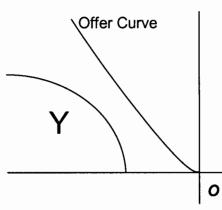


Figure 4B

Assume the firm must, at least, break even and chooses the best break even point. This might be **B** or might be the origin, depending on whether the offer curve intersects the production possibility set with positive production.

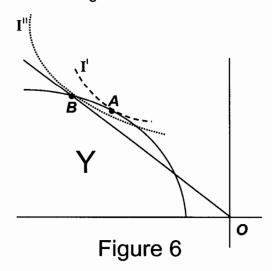




re 5A Figure 5B

If there exists an intersection like B, then A > B > O unless A and B happen to coincide, Implying $A \sim B > O$.

At **B**, the indifference curve is tangent to the line **OB**.



If there does not exist an intersection like **B**, then we can have either A > O or O > A

If O > A there does not exist an intersection like **B**.

If A > O, there <u>may</u> or <u>may not</u> exist an intersection like B.