**1)** In an economy with two goods and two consumers, the utility functions of the two consumers are known to be as follows:

$u\_{A}\left(x\_{1}^{A}, x\_{2}^{A}\right)=\left(x\_{1}^{A}\right)^{1/3}\left(x\_{2}^{A}\right)^{2/3} $, $ u\_{B}\left(x\_{1}^{B}, x\_{2}^{B}\right)=\left(x\_{1}^{B}\right)^{1/3}\left(x\_{2}^{B}\right)^{2/3}$.

The endowments of $x\_{1}$ and $x\_{2}$ are as follows:

Consumer A: 9 and 6; Consumer B: 18 and 3.

1. Find the equilibrium price.
2. Show market equilibrium on a carefully drawn graph. (No partial credit will be given in this part of the question. Make sure that your graph is correct and complete.)

**2)** Derive the Pareto set (contract curve) in the economy described in Question (1).