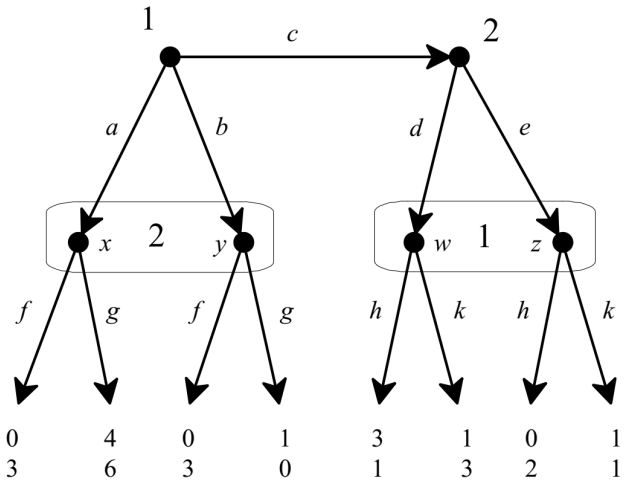
Problem 1. Consider the game below.



(a) Is the assessment (σ, μ) given below sequentially rational?

$$\sigma = \left(\begin{array}{ccc|cc|cc|cc} a & b & c & f & g & d & e & h & k \\ \frac{1}{8} & \frac{3}{8} & \frac{4}{8} & 1 & 0 & 0 & 1 & 1 & 0 \end{array}\right), \quad \mu = \left(\begin{array}{cc|cc} x & y & w & z \\ \frac{1}{3} & \frac{2}{3} & \frac{1}{2} & \frac{1}{2} \end{array}\right)$$

(b) Find a system of beliefs μ such that (σ, μ) satisfies Bayesian updating at reached information sets, given behavioral strategy profile

$$\sigma = \left(\begin{array}{ccc|cc|cc|cc} a & b & c & f & g & d & e & h & k \\ \frac{1}{8} & \frac{3}{8} & \frac{4}{8} & 1 & 0 & \frac{3}{4} & \frac{1}{4} & \frac{1}{5} & \frac{4}{5} \end{array}\right).$$

(c) Show that there are no pure-strategy weak sequential equilibria.

Problem 2. Find all pure-strategy weak sequential equilibria of the game below.