1) Let $f: B \to C$ & $g: A \to B$ be 2 A_∞-morphisms
find a formula for the composition $(f \circ g)_\bullet$ (using trees)
and show that composition is associative

2) an A_∞-morphism $f: A \to B$ is invertible if there is a $g_\bullet$ such that $(f \circ g)_\bullet = (\mathbb{1}_B)_\bullet$ and $(g \circ f)_\bullet = (\mathbb{1}_A)_\bullet$
where $(\mathbb{1}_A)_1$ is the identity map and $(\mathbb{1}_A)_{>1} = 0$ ②
Show that $f_\bullet$ is invertible as soon as f_1 is invertible

3) a) Let $A = \mathbb{C}1 \oplus \mathbb{C}\varepsilon + \mathbb{C}\rho$ with $\deg \varepsilon, \rho = 1, 2$
find all A_∞-structures on A such that 1 is a strict identity - b) when are 2 A_∞ structures A_∞-isomorphic