Weekly Problems 4 - Solutions Sunday, February 4, 2024 6:10 PM "tree" is defined as: * Connected * acyclic s we know a moximally acyclic graph must be acyclic > A maximally acyclic graph con

not be disconnected, as a new edge connecting two components 13 a cut edge, which can not be part of a cycle

=> Hence, it must also be connected D

(2) T (G)= T(G-e)+ T(G·e) T(\$\frac{1}{2}) = T(\frac{1}{2}) + T(\frac{1}{2})

$$5 + \tau(3) + \tau(3)$$
 $1 + 3 + 3 = 11$