For any thrackle we can create a graph where the vertices represent the convex sets and there is an edge between the vertices if the two convex sets intersect. For example:

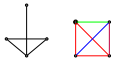
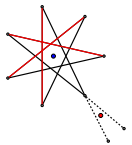


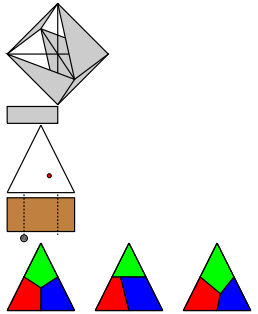
Figure 1: A thrackle and its reverse graph color indicated W points

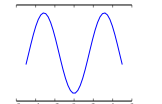
since ever convex set must intersect exactly once the ending reverse graph will be the complete graph on m vertices, K^m.

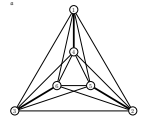
The intersection of convex sets is a symmetric relation and so any W point will be a sub-complete graph. Therefore the decomposition of the complete graph into sub-graphs is the number of W points which has to be larger than than m.

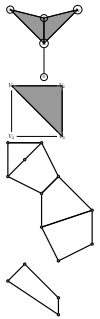
Figure 2: Examples of tight thrackles for Conjecture 0.1











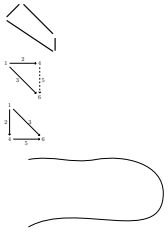


Figure 3: Example graphic made with tikz.