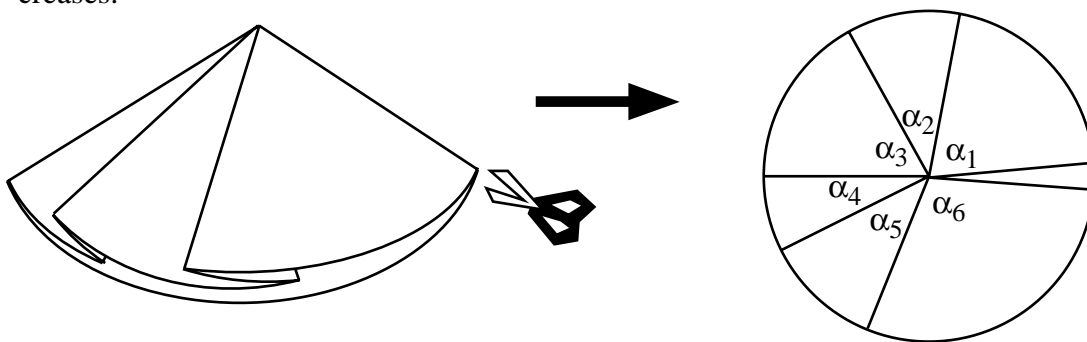


In Search of Kawasaki's Theorem

Our goal is to find some more theorems/conjectures about flat single-vertex folds. In particular, let's think about what must be going on with the **angles** between the creases.



Imagine having a single-vertex fold that is folded flat, like the one above. Suppose we committed some origami mutilation and **cut** along one of the creases. Then if we unfold the vertex is might look like the above right picture.

(1) What can you say about the sum of the angles, α_i ?

(2) Find other equations that involve the angles α_i . For example, if you **refold** the mutilated vertex fold, what can you notice?

Proofs?