Hexacorns and Where to Find Them

A *hexacorn* is a cycle consisting of 6 straight lines, each one perpendicular to its predecessor in the cycle. The flexible *Boat Hexacorn* shown above lives in Euclidean space. To encounter more exotic species, we will want to travel to hyperbolic space.

**Problems.**

1. Find hexacorns in the Euclidean plane; draw them using Mathematica (tinyurl.com/dartmath); classify them.
2. Find a tricorn; draw it using Mathematica.
3. Do monocorns exist?

Beyond Calculus: Math 17, Winter 2019