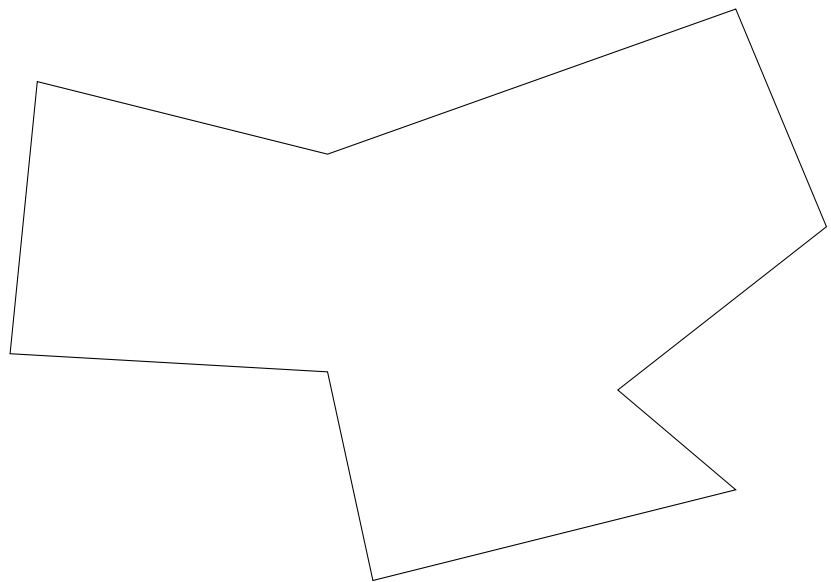
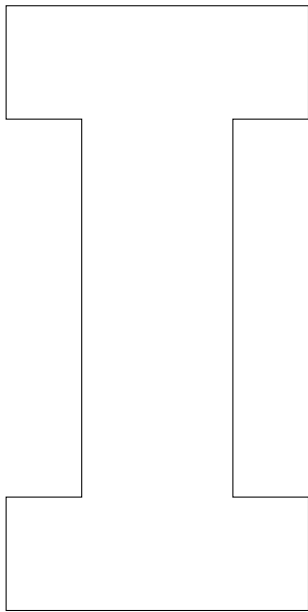
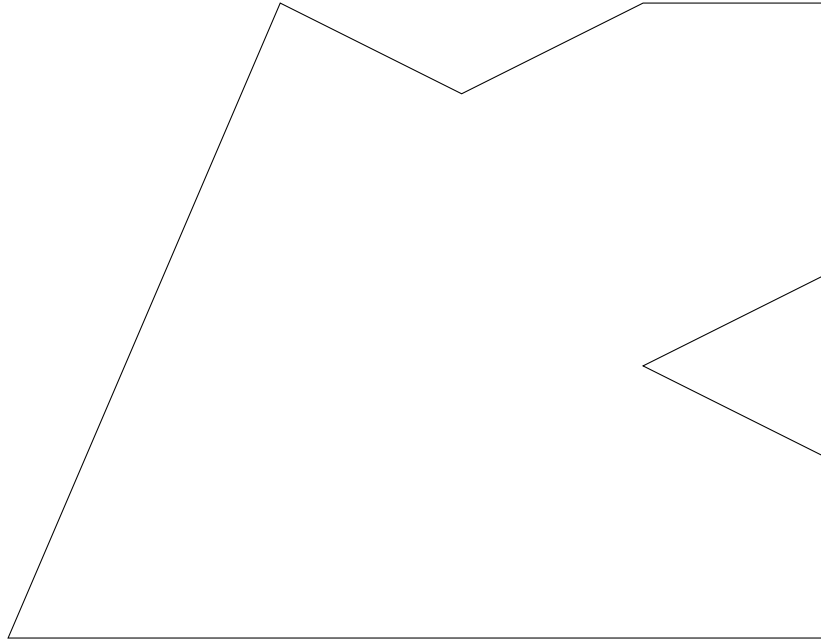


# Straight Skeleton

MATH 261 Computational Geometry

1. Sketch the straight skeleton of each of the following polygons.



**2.** Design an algorithm to compute the straight skeleton of a polygon. What is the computational complexity of your algorithm?

**3.** Is every geometric tree the straight skeleton of some polygon? Can a geometric tree be the straight skeleton of multiple different polygons?

**4.** Extend the concept of straight skeleton to polygons with holes. Draw some examples. How does your algorithm adapt to this new setting?