COT 4521-001: Introduction to Computational Geometry (Fall 2019)

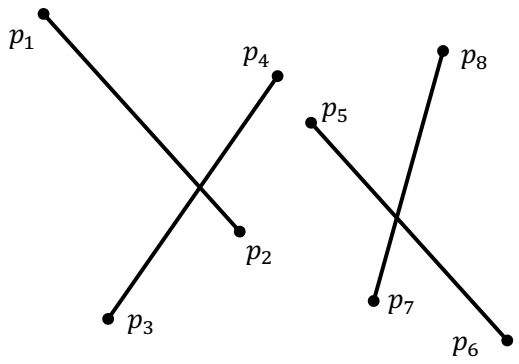
Worksheet 2

1 Ground Rules

This assignment is intended to be done alone. You may ask others for high-level help. However, the answer must be yours. For all questions we expect you to show yours work!

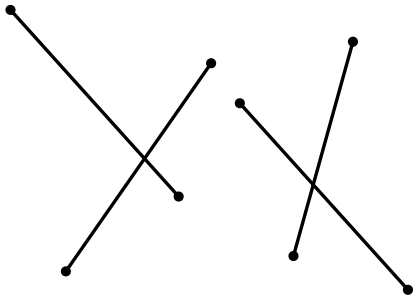
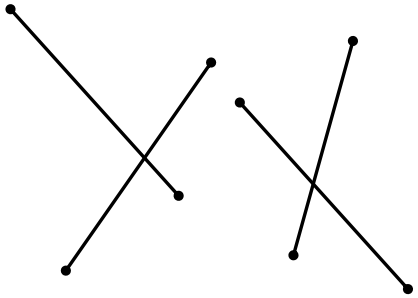
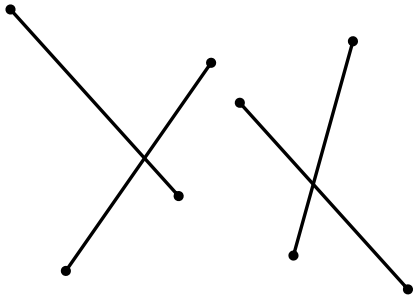
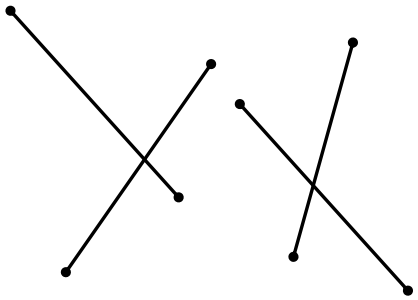
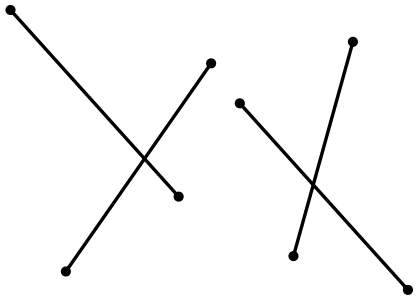
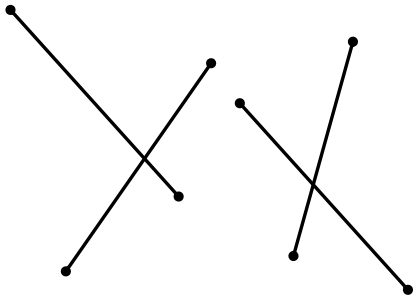
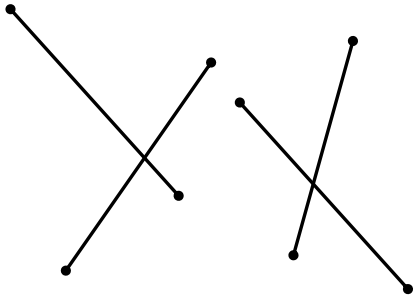
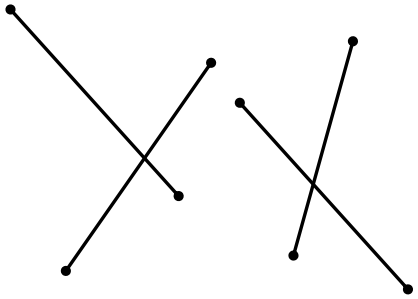
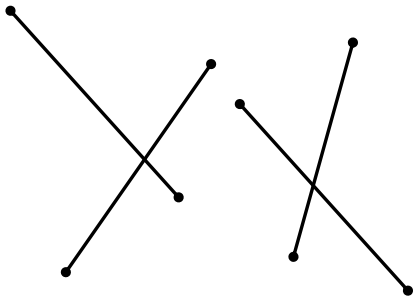
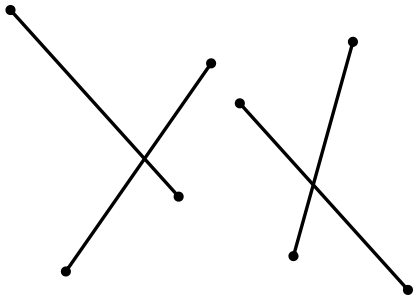
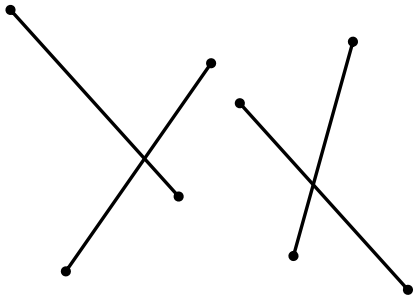
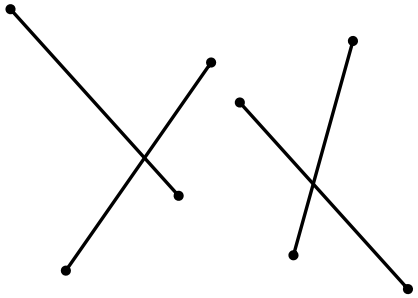
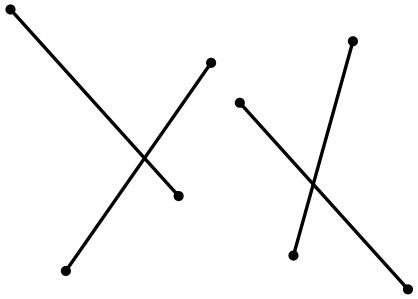
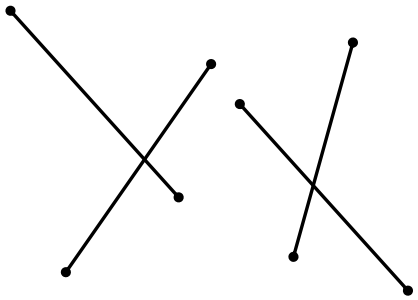
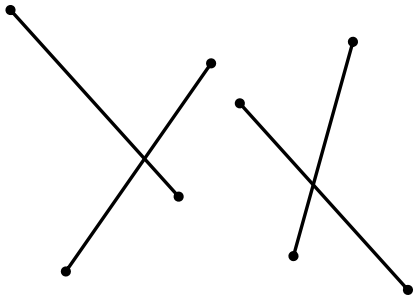
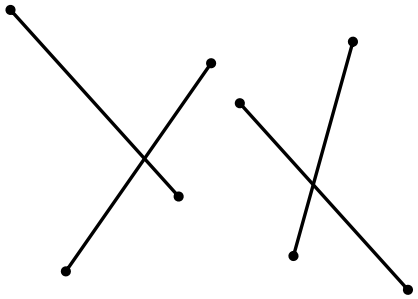
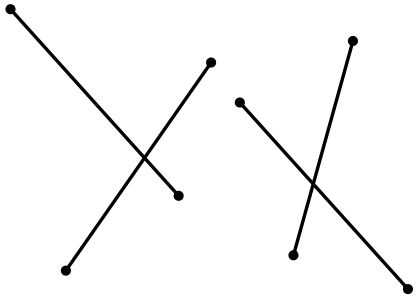
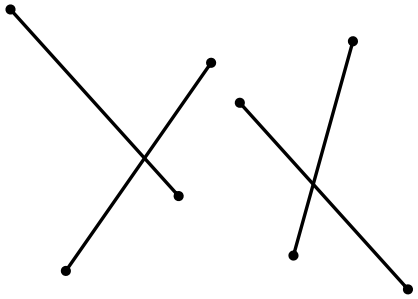
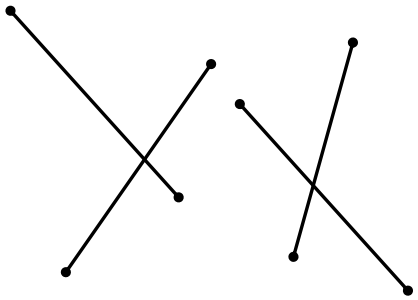
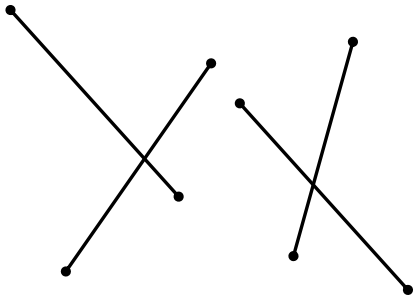
2 Assignment

For the line segments below, use the following pages to:



1. Show the 8 iterations of the AABB sweep algorithm (w/o the interval tree). At each step show the event queue, interval list, and indicate which segments are compared for intersection.

2. Show the 10 iterations of the line sweep algorithm. At each step show the event queue, segment order, and indicate which segments are compared for intersection.

3 Submission

Upload your answers and associated work to canvas as a single scanned, typed, or photographed PDF document. Be sure that your submission is legible.