

Figure 1: Polygons with inserted "visibility event" vertices.

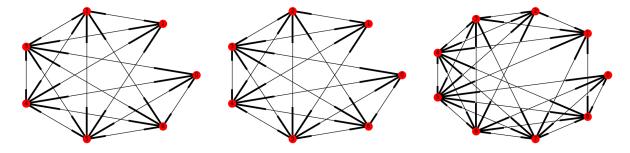


Figure 2: Bounce visibility graphs (edge-to-edge visibility) for the polygons (edge between segments i and j implies that there exists a point and angle which allows transitions.

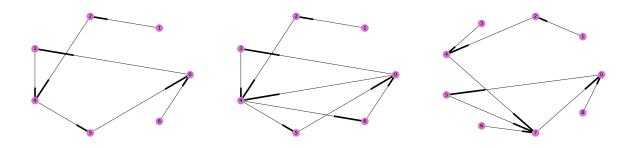


Figure 3: Reduced bounce visibility graphs, for the angle range $0.15 < \theta < 0.19$ radians.

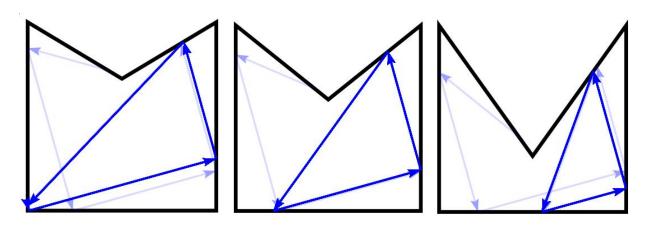


Figure 4: Limit cycles for $\theta=0.17$ radians (counterclockwise from boundary)