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**Filiz Dogru\*** ([dogruf@gvsu.edu](mailto:dogruf@gvsu.edu)), Mathematics Department, Grand Valley State University,  
2307MAK, Allendale, MI 49401. *Examples of outer billiards with periodic dynamics.*

We analyze the dynamics of the two classes of the outer billiard tables, regular right-angled polygons and small equilateral triangles for which group, generated by reflections in the vertices, is discrete. In this case the outer billiard map is periodic. We give detailed description of these systems including a complete description of the periods and rotation numbers of periodic orbits. (Received September 26, 2005)