

Problem 1 (due Monday, February 5)

| Consider a convex polyhedron whose every face is a triangle. We color the vertices of the
| polyhedron in 3 colors. Prove that the number of faces of the polyhedron whose vertices are of
| all three colors is even.

We received solutions from Sasha Aksenchuk and Maximo Rodriguez. Both solvers observe that a polyhedron with triangular faces has an even number of faces and use it in their solutions. For a complete solution see the following link Solution.

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