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A polygon A in a configuration \mathcal{C} is called rotary if \mathcal{C} admits an automorphism which acts upon A as a one-step rotation. We study rotary polygons and their orbits under the group of automorphisms (and antimorphisms) of \mathcal{C} . We determine the number of such orbits for several symmetry types of rotary polygons in the case when \mathcal{C} is flag-transitive. (Received August 08, 2010)