29. Consider the polynomial \( p = X + 1 \) in \( \mathbb{Z}_2[X] \). What is \( p + p \)? What is \( p \cdot p \)?

30. Find all of the roots of \( X^6 - 1 \) in \( \mathbb{Z}_7 \). Factor the polynomial.

31. Find two non-zero polynomials \( p \) and \( q \) in \( \mathbb{Z}_6[X] \) so that \( \deg(pq) \neq \deg(p) \cdot \deg(q) \).

32. How many symmetries does a rectangle have?

33. Describe the set of symmetries of a circle.

34. How many symmetries does a cube have?