Homework 2 1. Compute the following values: O: Pulec toctient function (9) U(2), U(3), U(5)(b) $Q(2^2), Q(3^2), Q(5^2)$ (C) $((2^3), ((3^3), ((5^3)))$ a) u(6), u(15) Caryon derve a formula for U(n)? 2. Let p = 5. $\mathbb{Z}_{p}^{*} = \frac{1}{2} \left[\frac{1}{2} \cdot \frac{1}{p} - \frac{1}{2} \right]$ is a group under multiplication mad P 9 order of 9 in Zp* b) Is Zp a cyclic group? (Can you find a generator?) 9-1 (mod P)