

Mathematics 351 – Abstract Algebra 1  
Solutions for Problem Set 9  
November 9, 2007

*Section 7.5*

5. (a)  $Z_{24}$  has order 24, so by Lagrange's Theorem, the possible orders of subgroups of  $Z_{24}$  are 1, 2, 3, 4, 6, 8, 12, 24.