CHAPTER I

INTRODUCTION

This thesis deals with the characterizations of digraphs which are defined from algebraic systems in a certain way.

These digraphs are groupoid digraphs, quasi - group digraphs,
loop digraphs and group digraphs. Characterizations of
quasi - group digraphs and loop digraphs were given by H.H. Teh [2].

H.P. Yap [4] gave an example of a point - symmetric digraph
which is not a group digraph. Turner [5] proved that every
point - symmetric digraph with a prime number of points is a
group digraph. The main purpose of this thesis is to characterize
group digraphs given in theorem 4.3.3 and corollary 4.3.4.