

MAD 3104 DM1 **Quiz 6x** 1 Nov 1995 Name: _____

Show **ALL** work for credit; be neat; and use only **ONE** side of each page of paper.

1. There are two non-isomorphic 3-regular graphs with 6 vertices. Draw both of them.

2. Prove: if both $f : X \rightarrow Y$, and $g : Y \rightarrow Z$ are one-one then so is gf .