

# Assignment 4

MA1126

Q 1, 2, 3 Do 6, 7, 8 from A52.

Be very clear in each step.

Remember  $P \iff Q$  means  $P \Rightarrow Q$  &  $Q \Rightarrow P$ .

$$\begin{array}{ccc} \mathbb{N} \times \mathbb{N} & \xrightarrow{\times} & \mathbb{N} \\ \downarrow p & & \downarrow p \\ \mathbb{Z} \times \mathbb{Z} & \xrightarrow{\times} & \mathbb{Z} \end{array}$$

Show the diagram commutes.

Q 5 Do 27 in supp. problems p44

Q 6 Do 28 " " " p45

Hint look at worked solutions.