Homework 2- Genetic Engineering

1.

(a) Genetic engineering is used to produce growth hormone.

The growth hormone gene is identified and removed from a human chromosome. This gene is then used in the genetic engineering process which involves a number of stages.

The table below shows the stages but they are not in the correct order.

Complete the table, entering a number (2 to 5) in each remaining box, to show the correct order for each stage.

Stages	Number
bacterial plasmid cut open	
bacteria multiply and synthesise growth hormone	
growth hormone gene inserted into bacterial plasmid	
bacterial plasmid removed from bacterium	1
bacterial plasmid inserted into bacterium	

(b) Name another product of genetic engineering.

(c) State the effect of genetic engineering on the rate of production and the range of products.

Rate of production _____

Range of products _____

1

2

1