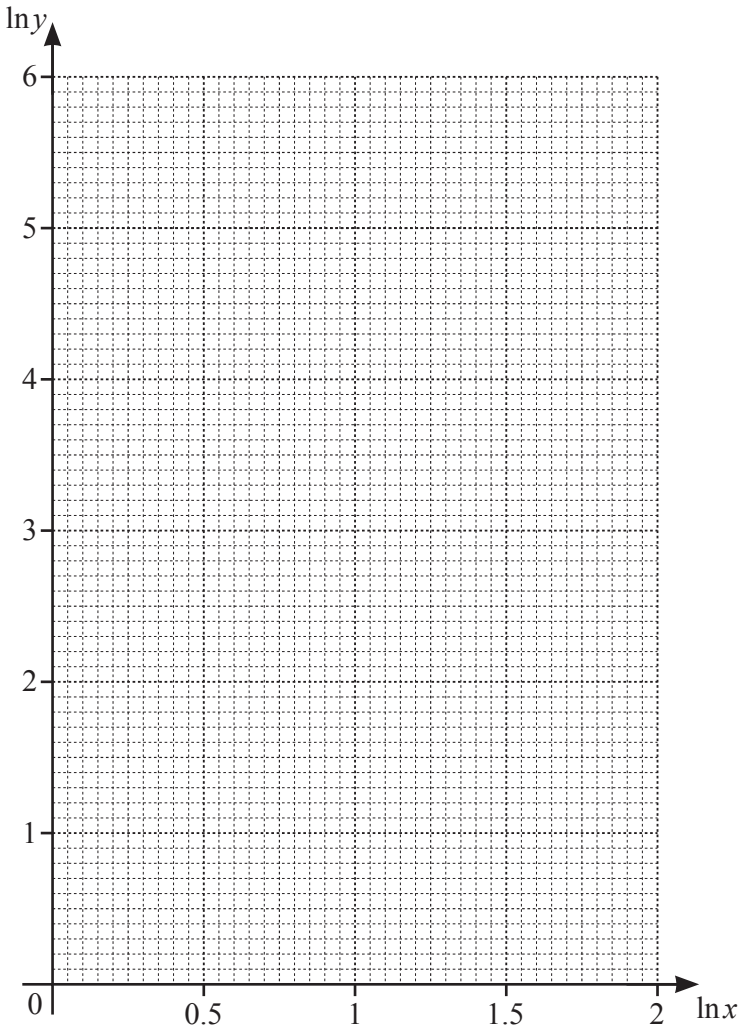
7 The table shows values of the variables x and y which are related by an equation of the form $y = Ax^b$, where A and b are constants.

x	1.5	2	2.5	3	4
y	13.8	27.5	46.9	72.6	145

(a) Use the data to draw a straight line graph of $\ln y$ against $\ln x$. [3]



(b) Use your graph to estimate the values of A and b. [5]

(c) Estimate the value of x when $y = 100$. [2]