25. The data in the table was recorded during an experiment. Results were recorded for the two variables x and y.
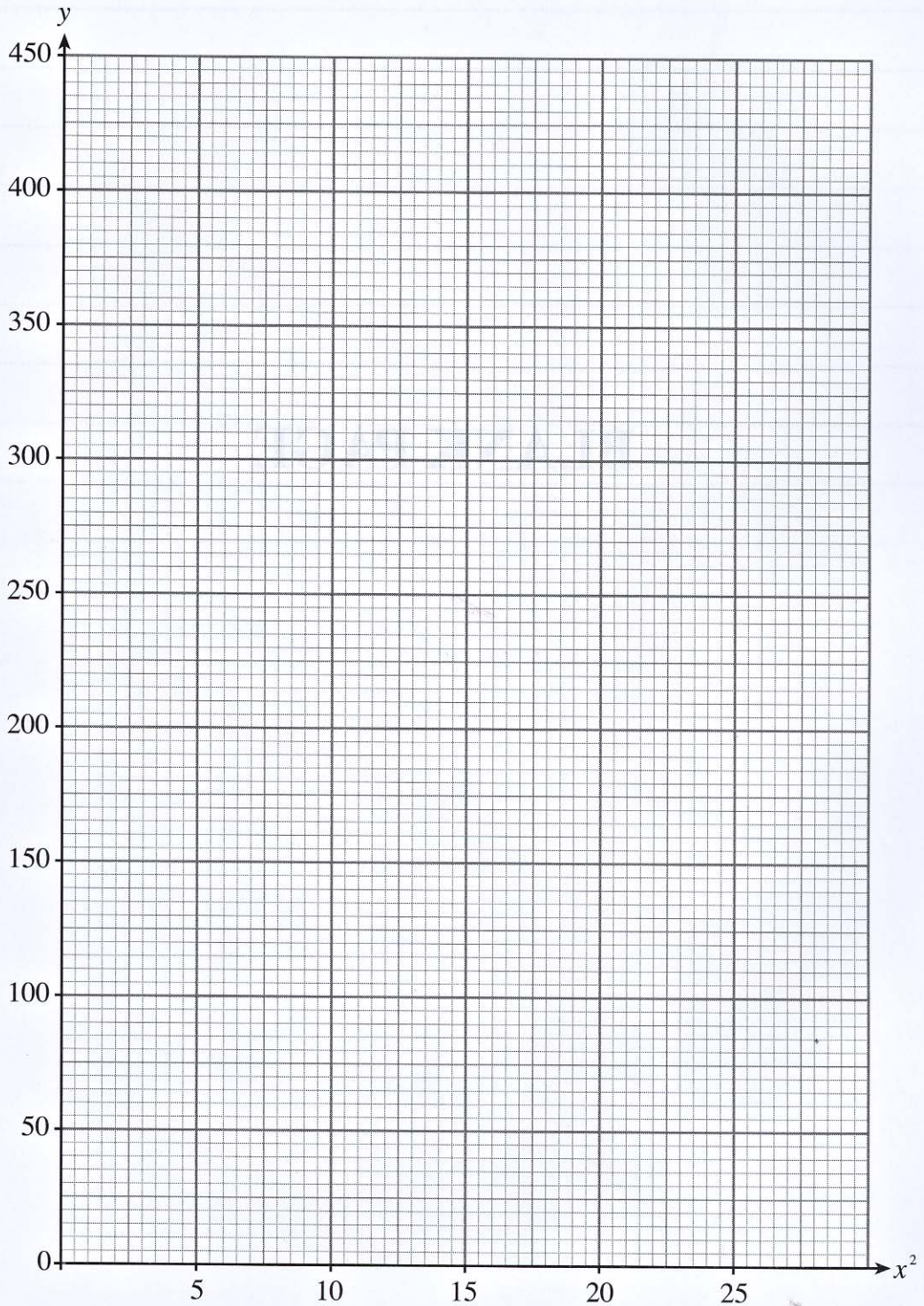
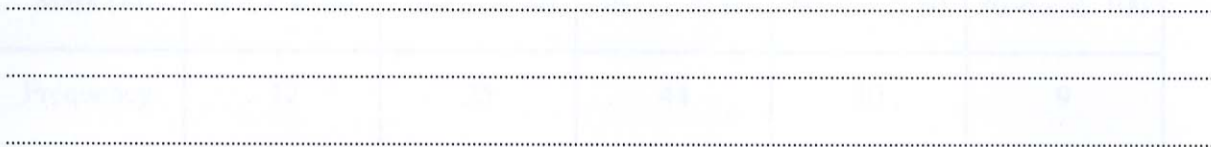| x	1	2	3	4	5
y	48	81	148	236	348

(a) On the graph paper plot the values of y against the values of x^2.   [2]

(b) Before starting the experiment, it was already known that y is approximately equal to $ax^2 + b$.

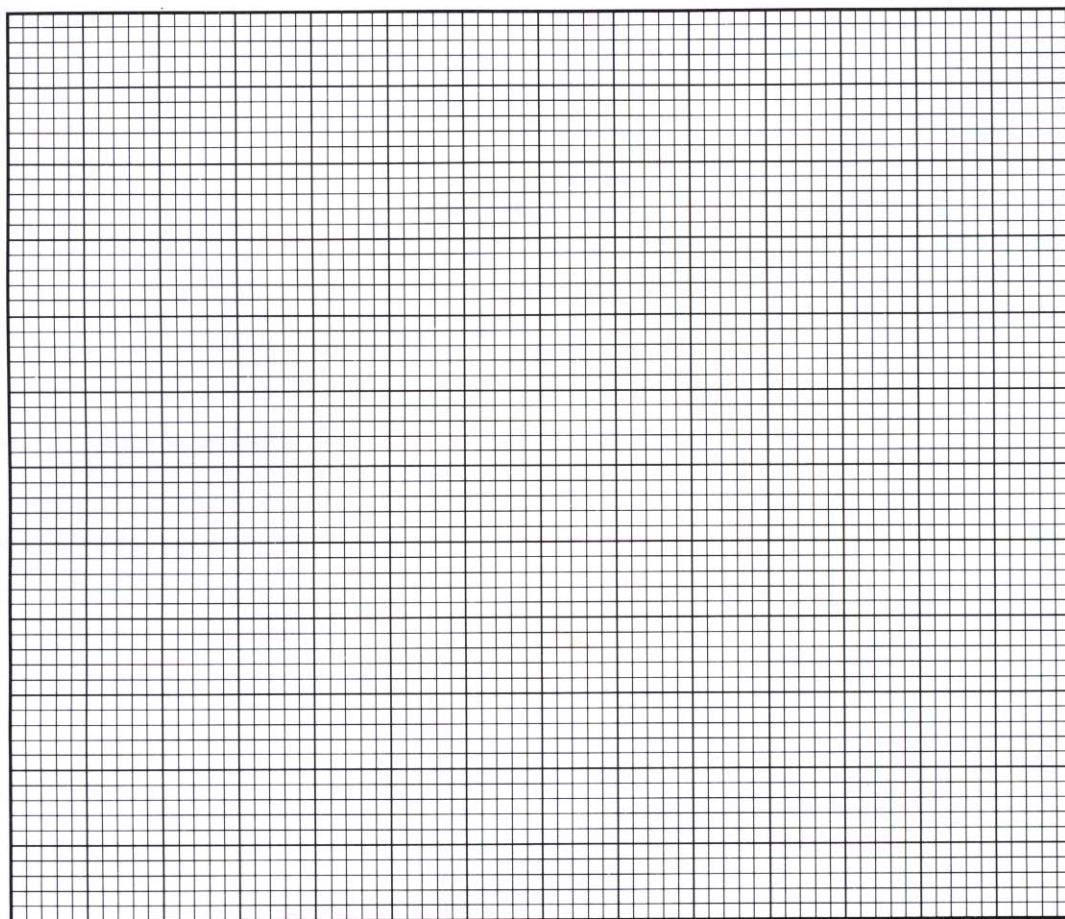Use your graph to estimate a and b.

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[3]

25. The data in the table was recorded during an experiment. Results were recorded for two variables x and y.

x	1	2	3	4
y	11·5	21·9	50·4	105·9

(a) On the graph paper plot the values of y against the values of x^3.

[2]

(b) Before starting the experiment it was already known that y is approximately equal to $px^3 + q$.
Use your graph to estimate p and q.

[3]