3 A traffic expert claims that the number of breakdowns occurring each day on a busy section of a motorway follows a Poisson distribution with mean 0.7. The number of breakdowns each day over a 200-day period was recorded. The following table contains the observed frequencies together with some of the expected frequencies using the expert's distribution.

Number of breakdowns per day	0	1	2	3	4	$\geqslant 5$
Observed frequency	88	73	26	7	3	3
Expected frequency	99.317	m	24.333	5.678	0.994	n

(a) Find the value of m and the value of n, correct to 3 decimal places. [2]

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(b) Carry out a goodness of fit test at the 5% significance level to investigate the expert's claim. [6]

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