Advanced Higher Maths
SQA 2019 Paper
Question 9

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(a) Write down and simplify the general term in the binomial expansion of $\left(2x^2 - \frac{d}{x^3}\right)^7$, where d is a constant. **3**

(b) Given that the coefficient of $\frac{1}{x}$ is $-70\,000$, find the value of d. **2**

Answers:

(a) $\binom{7}{r} 2^{7-r} (-d)^r x^{14-5r}$

(b) $d = 5$