

Advanced Higher Maths
SQA 2023 Paper 2
Question 5



(a) Write down and simplify the general term in the binomial expansion of

$$\left(3x - \frac{2}{x^2}\right)^8$$

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(b) Hence, or otherwise, determine the coefficient of x^{-1} .

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Answers:

(a) $\binom{8}{r} 3^{8-r} (-2)^r x^{8-3r}$

(b) -108864