Exercise 2

Paper 1 style · No calculator

2 4 marks SL 1.9 ●●○ Typical

Consider the expansion of $(2x - 5)^4$.

(a) Find the term in x^2. **[3]**

(b) Write down the constant term. **[1]**

The markscheme is on the next page: try the question first. Written and verified by a practising IB mathematics teacher, produced with AI assistance; solved twice and recomputed by software. Not affiliated with or endorsed by the International Baccalaureate Organization.
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MARKSCHEME (a)

$\binom{4}{2}(2x)^2(-5)^2$ **(M1)**

$6 \times 4 \times 25$ **(A1)**

$600x^2$ **A1**

Total 3 marks

MARKSCHEME (b)

$(-5)^4 = 625$ **A1**

Total 1 mark