

L057 · GCSE Mathematics 1MA1 · 60 minutes

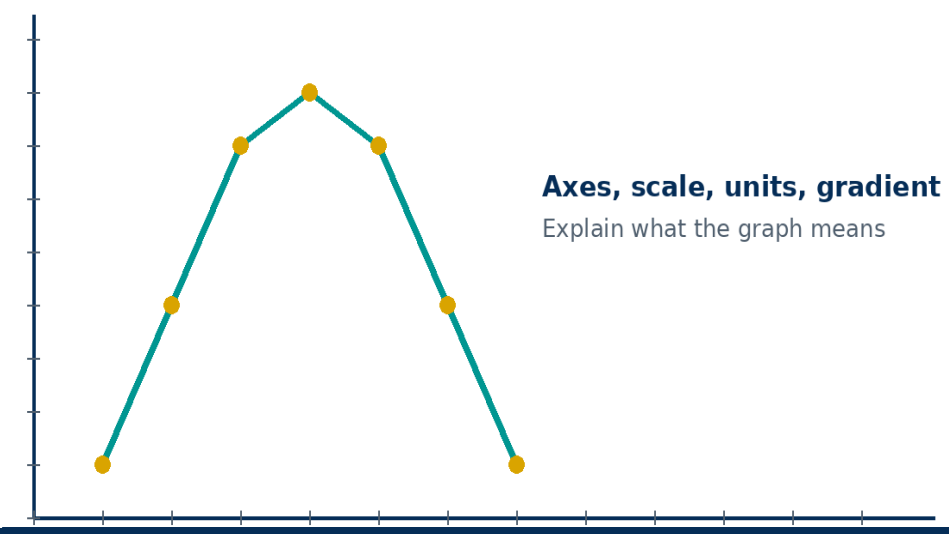
The goal

Expand and factorise quadratic expressions using structure.

Connect & Check

Complete the starter in your workbook. Retrieve the prior skill, then identify one likely error before you use today's method.

L057 Quadratic expressions



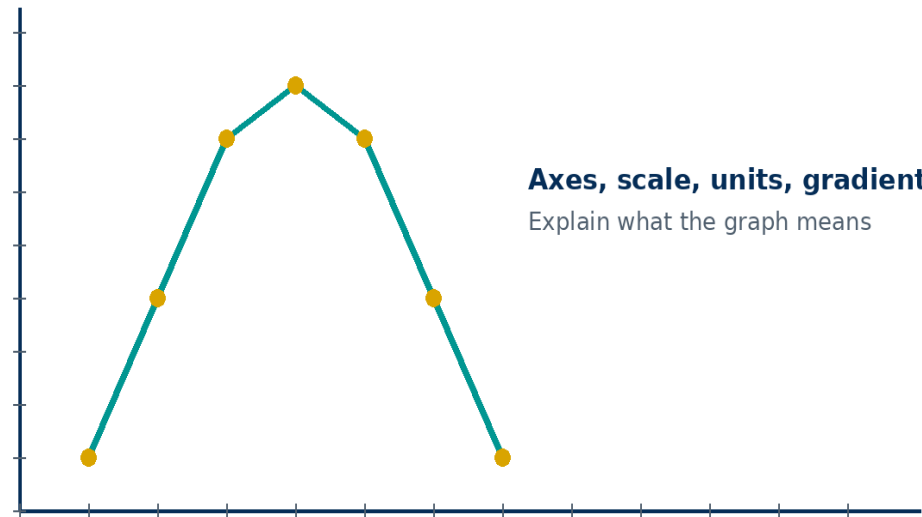
Objective: Expand and factorise quadratic expressions using structure.

Compare your method with a partner. Agree on one reliable step and one check. Be ready to explain your reasoning, not just your answer.

Build the method

Use the worked model to connect area models to products; reverse expansion to check factors. Record the key step and one check that proves the answer.

L057 Quadratic expressions



Objective: Expand and factorise quadratic expressions using structure.

Choose your route

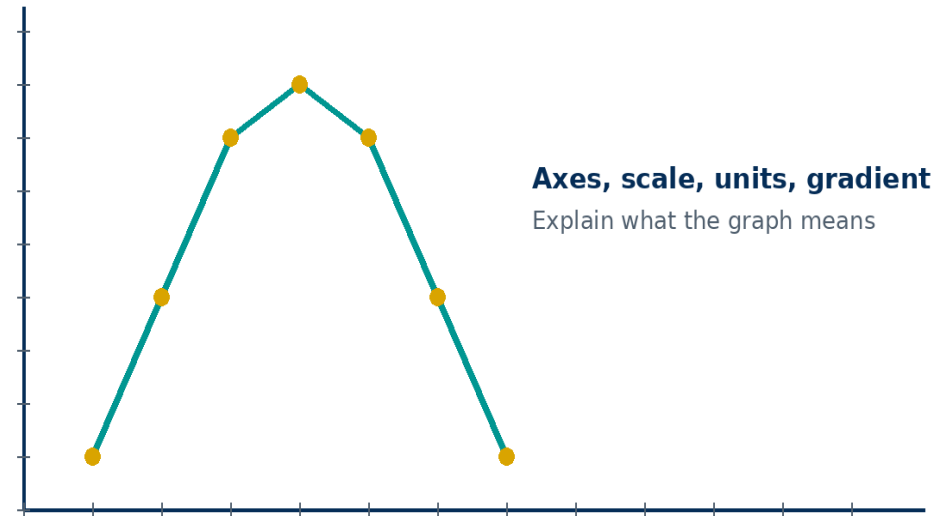
Choose your route: A - visual model, B - method first, or C - explain first.
Whichever route you choose, your final answer must prove the lesson objective.

Guided practice

Factorise $2x^2+7x+3$ and check by expansion.

Apply

L057 Quadratic expressions



Objective: Expand and factorise quadratic expressions using structure.

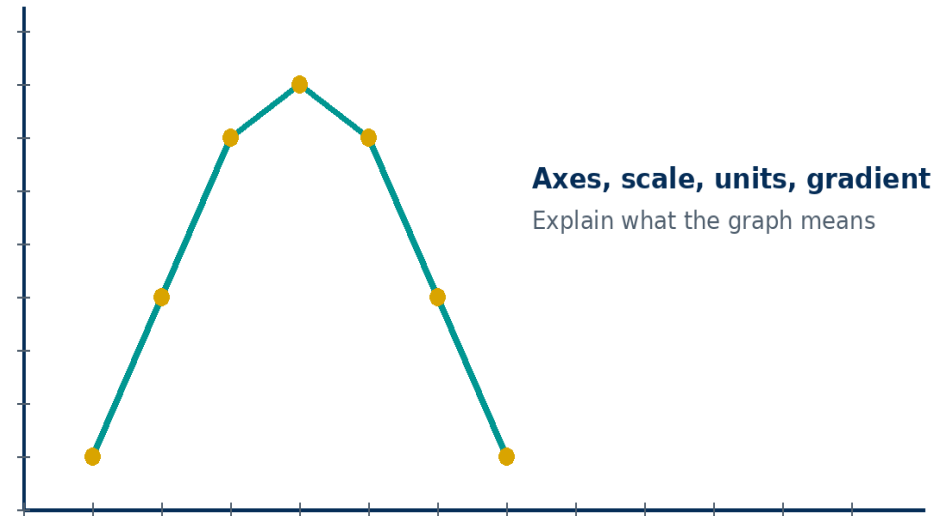
7/11

Independent practice

A learner writes $(x-4)(x+2)=x^2-8$. Find the missing terms.

Apply

L057 Quadratic expressions



Objective: Expand and factorise quadratic expressions using structure.

8/11

Exam-style practice

Solve an exam-style problem involving quadratic expressions. Show working, include a check and interpret your answer.

Recall & Review

Complete a fresh question without notes. Check your answer, correct one error if needed, and record the next practice step.

Before next lesson

Correct one error, record one target and complete the flipped learning task.

L057 Recall & Review

Quadratic expressions



Fresh evidence: prove the objective

Solve a new question without prompts. Explain one check, then correct one error in your working.

Objective: Expand and factorise quadratic expressions using structure.

Write the next practice step before you leave. It must test the method again, not simply copy today's example.

Feedback language

Use the full phrases before the abbreviations.

What Went Well (WWW)

I represented the algebraic structure accurately, kept each transformation valid and checked the result by substitution, graph or equivalent reasoning.

Identify the mathematical method, representation, reasoning or check that improved.

Even Better If (EBI)

I will show the missing inverse operation or algebraic step, keep signs and brackets accurate and test the result in the original relationship.

Set one precise next-step action and test it on a fresh question.

Extension route

Choose this route only after the core evidence is secure.

Stretch

Factorise $2x^2+7x+3$ and check by expansion.

Deep challenge

A learner writes $(x-4)(x+2)=x^2-8$. Find the missing terms.

Explain your reasoning clearly enough that another learner could check it.