Identify Proportional Graphs: Straight Lines Through the Origin

Original task 1 / independent drawing and calculation

Task 1

A graph shows a straight line passing through (0,4) and (2,8). Is the relationship proportional? Justify.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Identify Proportional Graphs: Straight Lines Through the Origin

Original task 2 / independent drawing and calculation

Task 2

A graph shows a curve passing through (0,0), (1,1), and (2,4). Is the relationship proportional? Justify.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Identify Proportional Graphs: Straight Lines Through the Origin

Original task 3 / independent drawing and calculation

Task 3

A graph shows a straight line passing through (0,0) and (3,6). Is the relationship proportional? Justify.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Identify Proportional Graphs: Straight Lines Through the Origin

Original task 4 / independent drawing and calculation

Task 4

A graph shows only one point at (2,5). Can you judge whether the relationship is proportional? Explain.

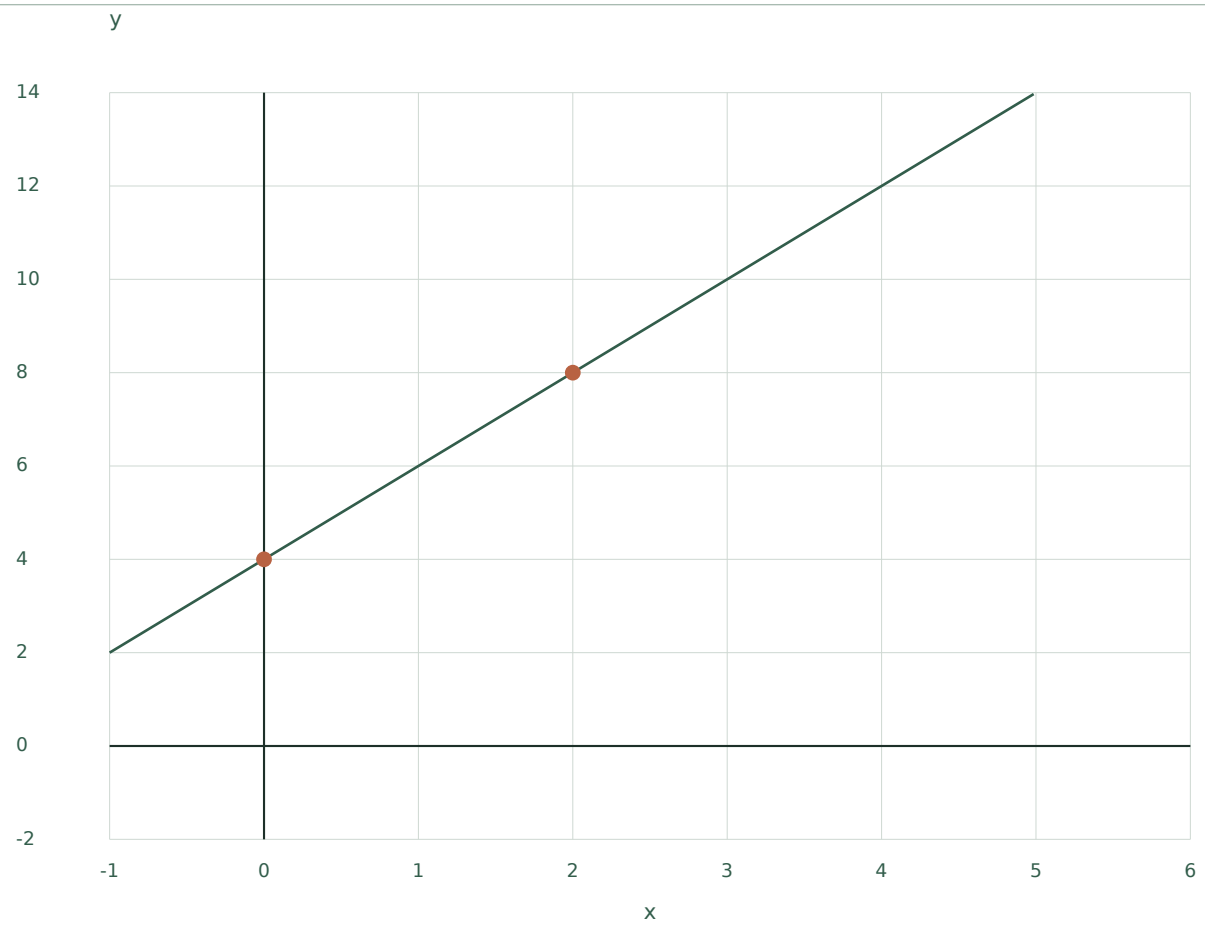
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Identify Proportional Graphs: Straight Lines Through the Origin

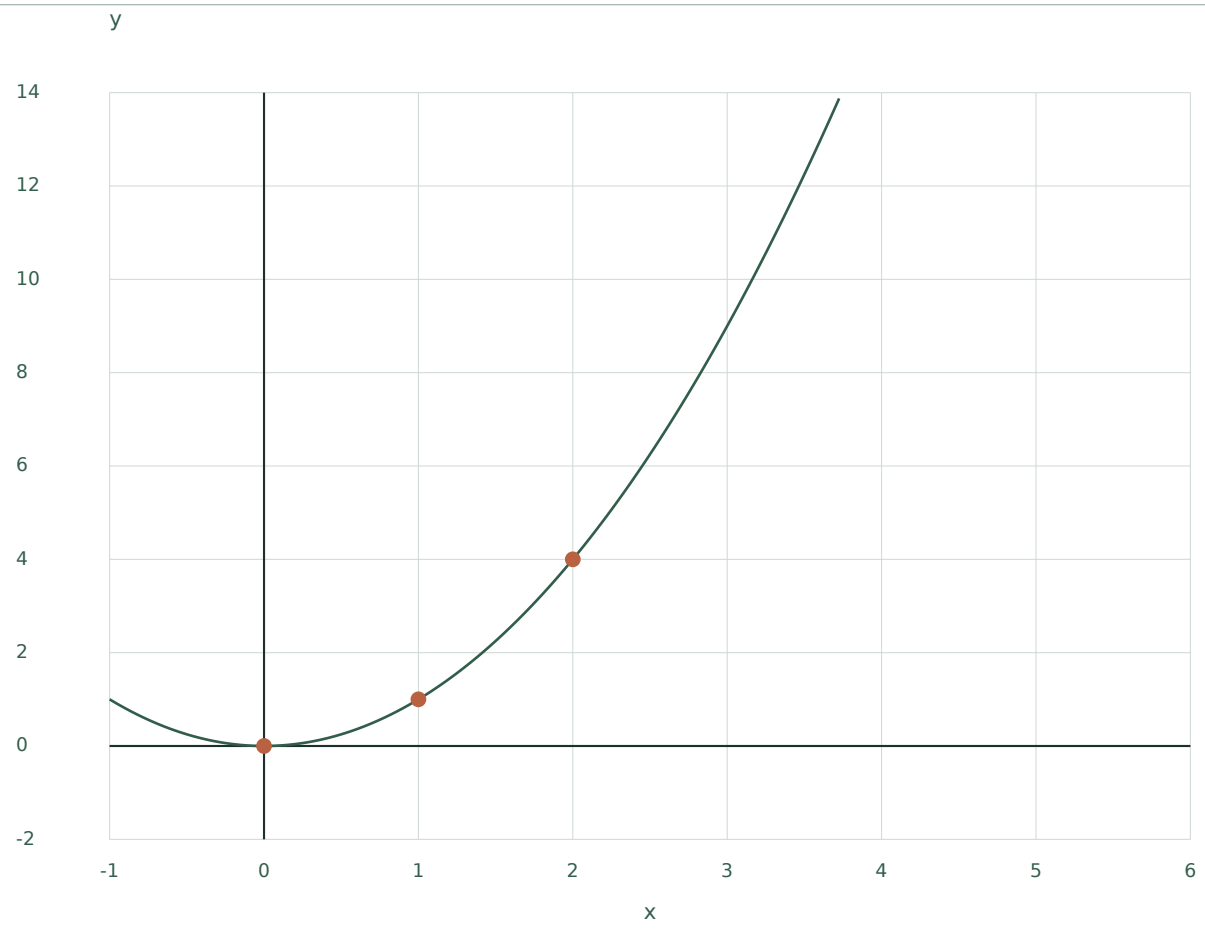
Task 1 / given or blank workspace



Given graph from the original prompt. The curved example uses y=x^2 as a chosen curve through its stated points. The single-point task deliberately has NO added line.

Identify Proportional Graphs: Straight Lines Through the Origin

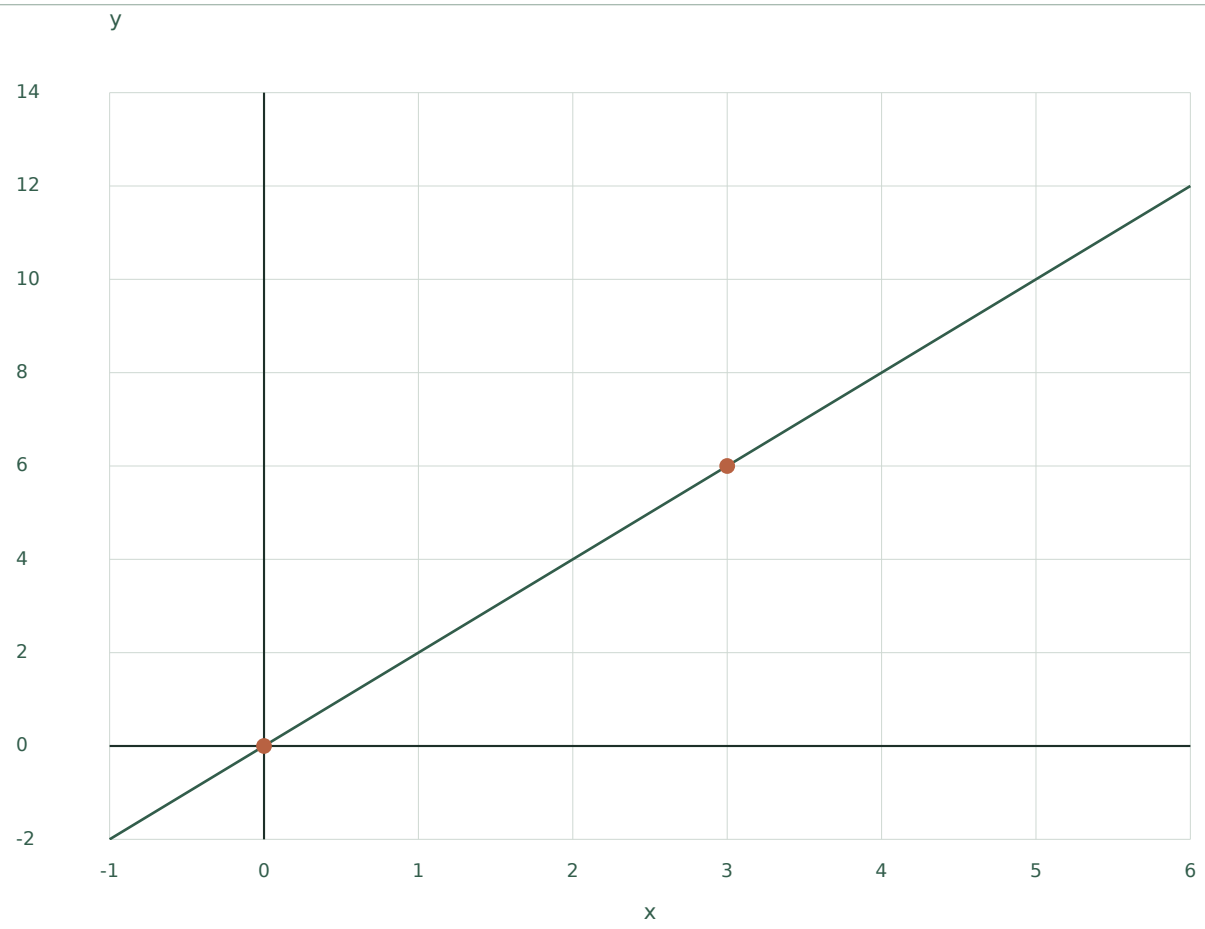
Task 2 / given or blank workspace



Given graph from the original prompt. The curved example uses y=x^2 as a chosen curve through its stated points. The single-point task deliberately has NO added line.

Identify Proportional Graphs: Straight Lines Through the Origin

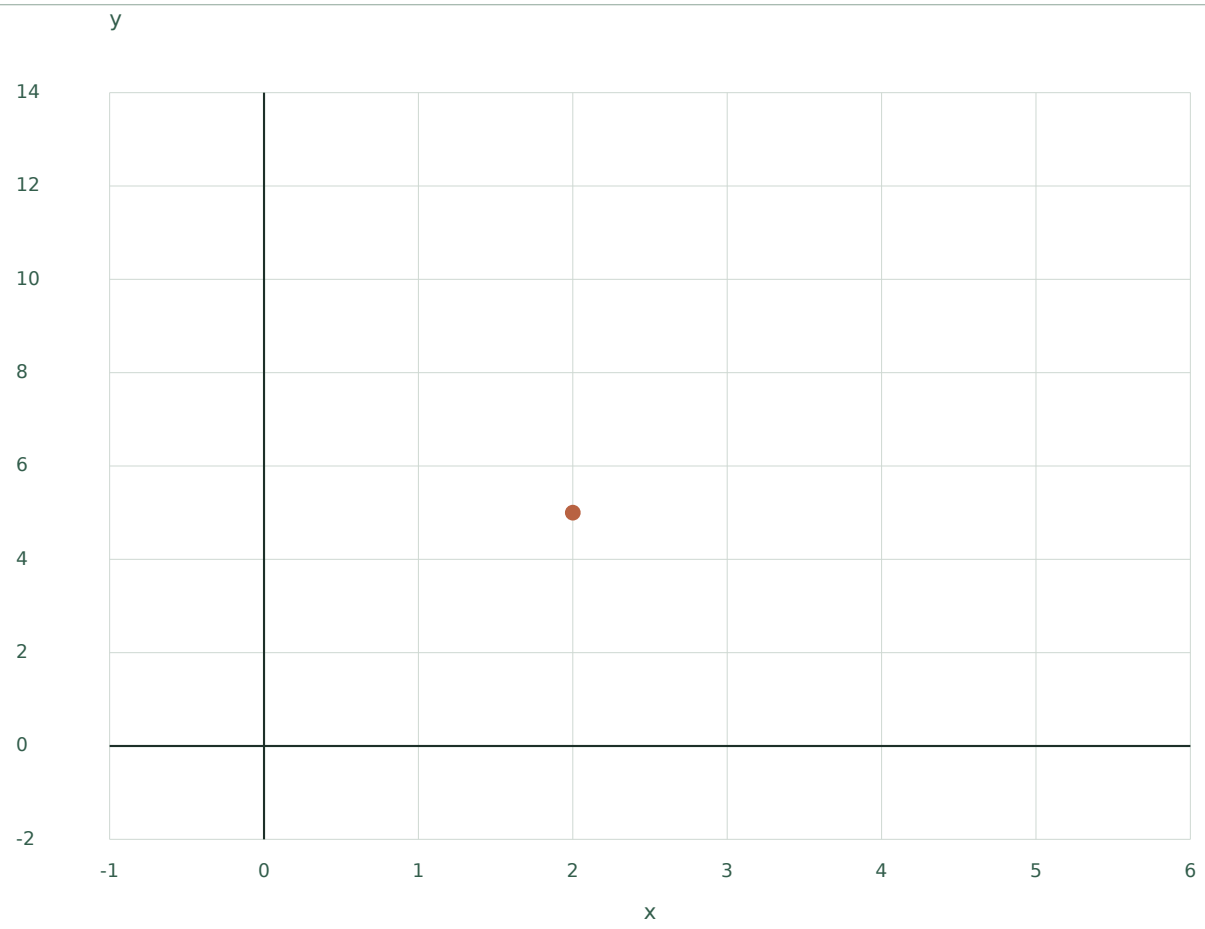
Task 3 / given or blank workspace



Given graph from the original prompt. The curved example uses y=x^2 as a chosen curve through its stated points. The single-point task deliberately has NO added line.

Identify Proportional Graphs: Straight Lines Through the Origin

Task 4 / given or blank workspace



Given graph from the original prompt. The curved example uses y=x^2 as a chosen curve through its stated points. The single-point task deliberately has NO added line.