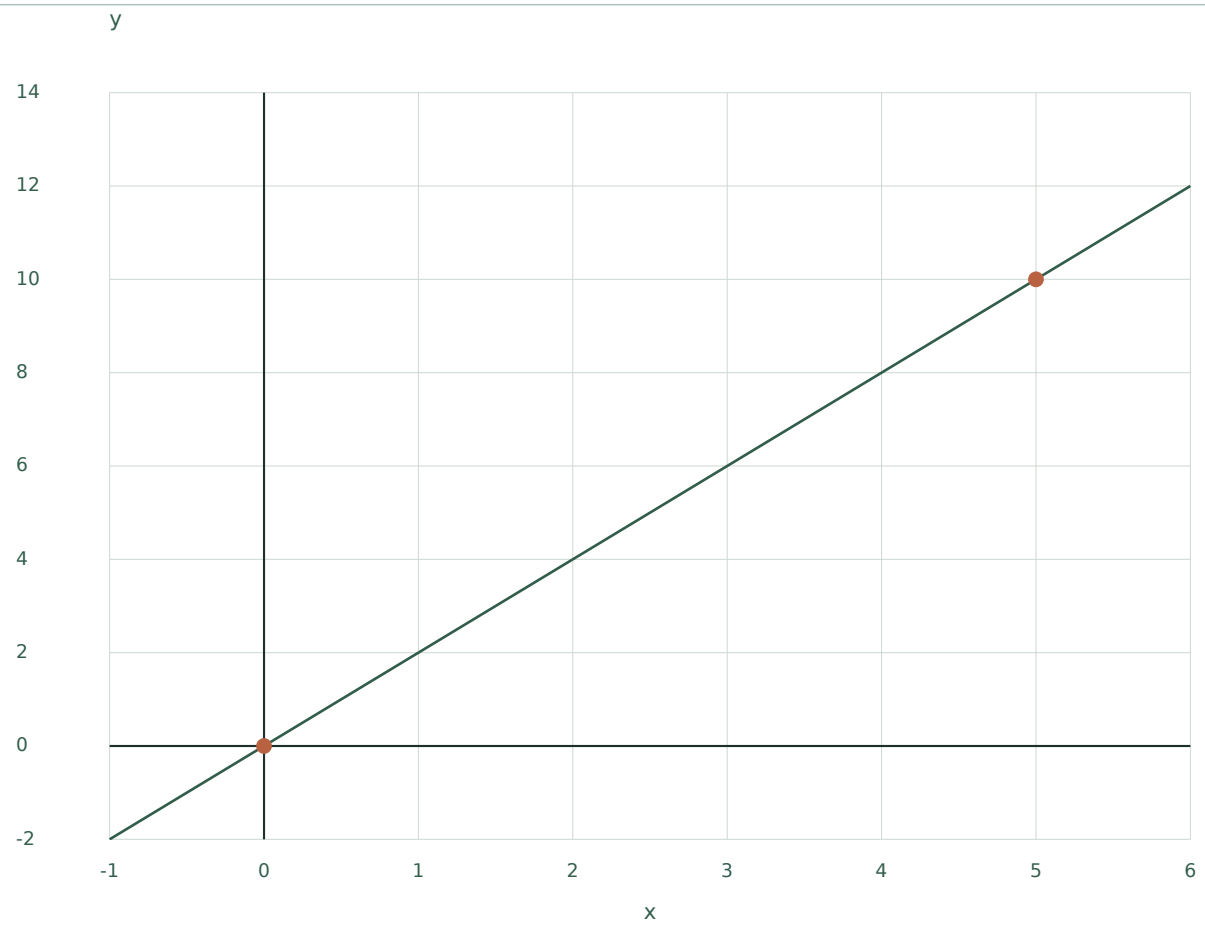
Identify Proportional Graphs: Straight Lines Through the Origin

Worked graph



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

Original worked example / unchanged complete key

Prompt: A graph shows a straight line passing through (0,0) and (5,10). Judge whether the relationship is proportional and justify your answer.

Answer: The relationship is proportional. The graph is a straight line, and it passes through the origin (0,0). The ratio at (5,10) is 10/5 = 2, consistent with a constant ratio for a line through the origin.