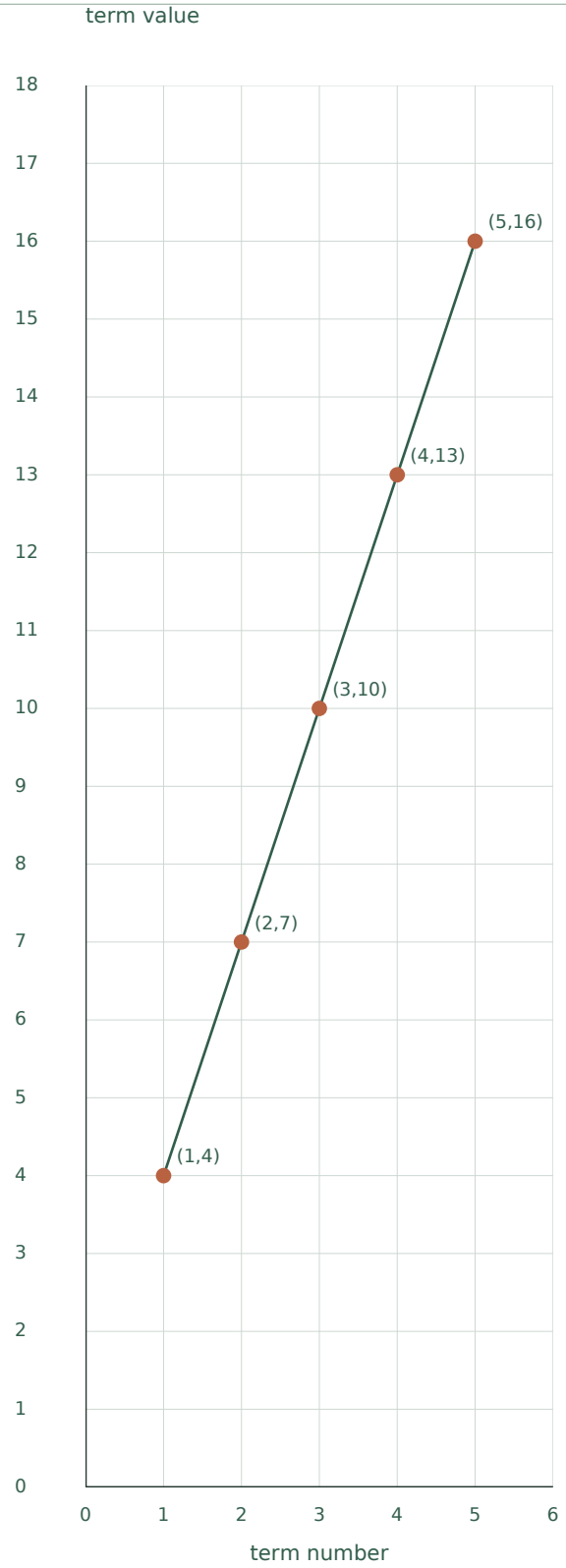
Graphing Patterns on the Coordinate Plane: Plot Sequences and State the Rule

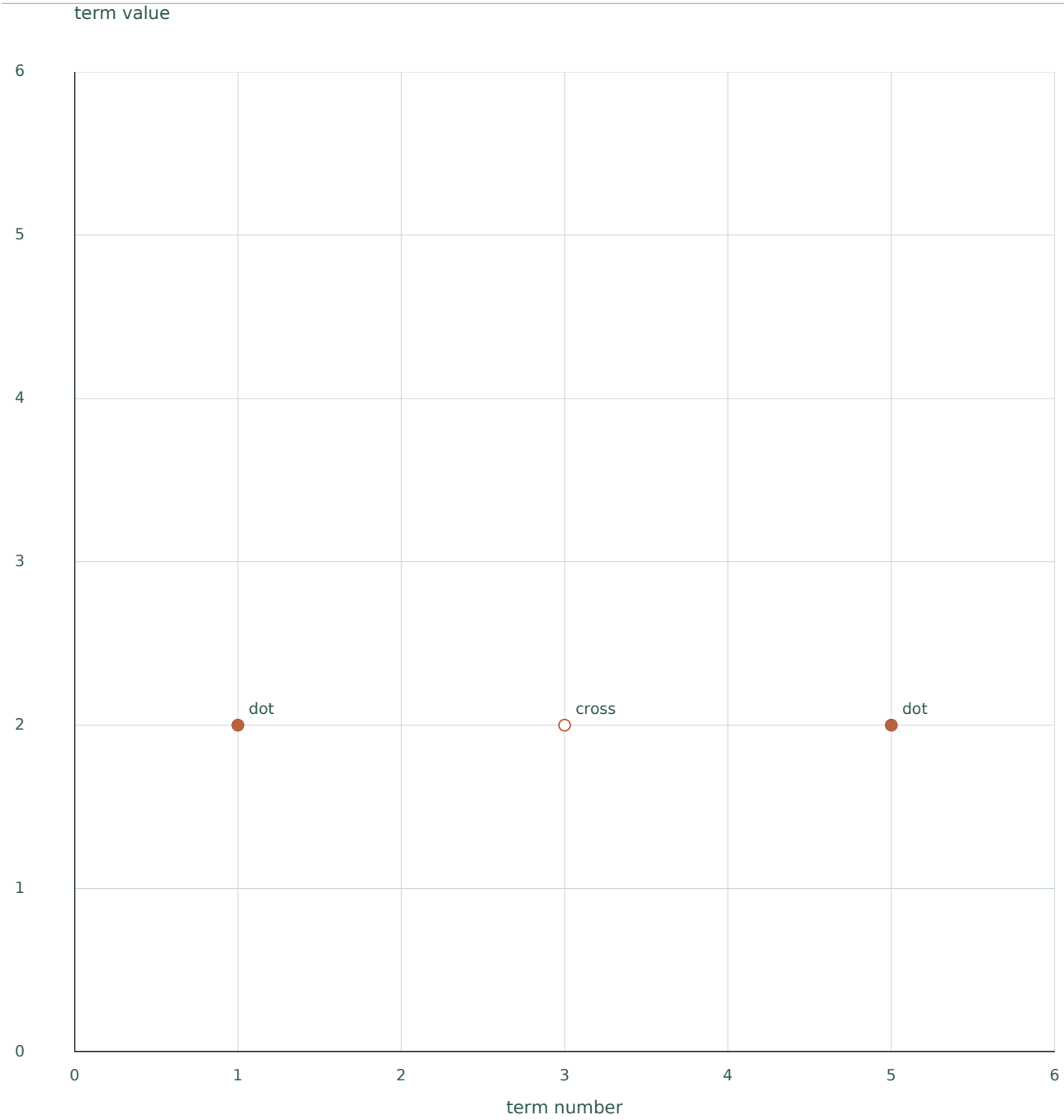
Worked example: plot (1,4),(2,7),(3,10),(4,13),(5,16)



Points lie on a straight line; rule: start at 4 and add 3 to each term; equivalently term value = 3 times term number plus 1.

Graphing Patterns on the Coordinate Plane: Plot Sequences and State the Rule

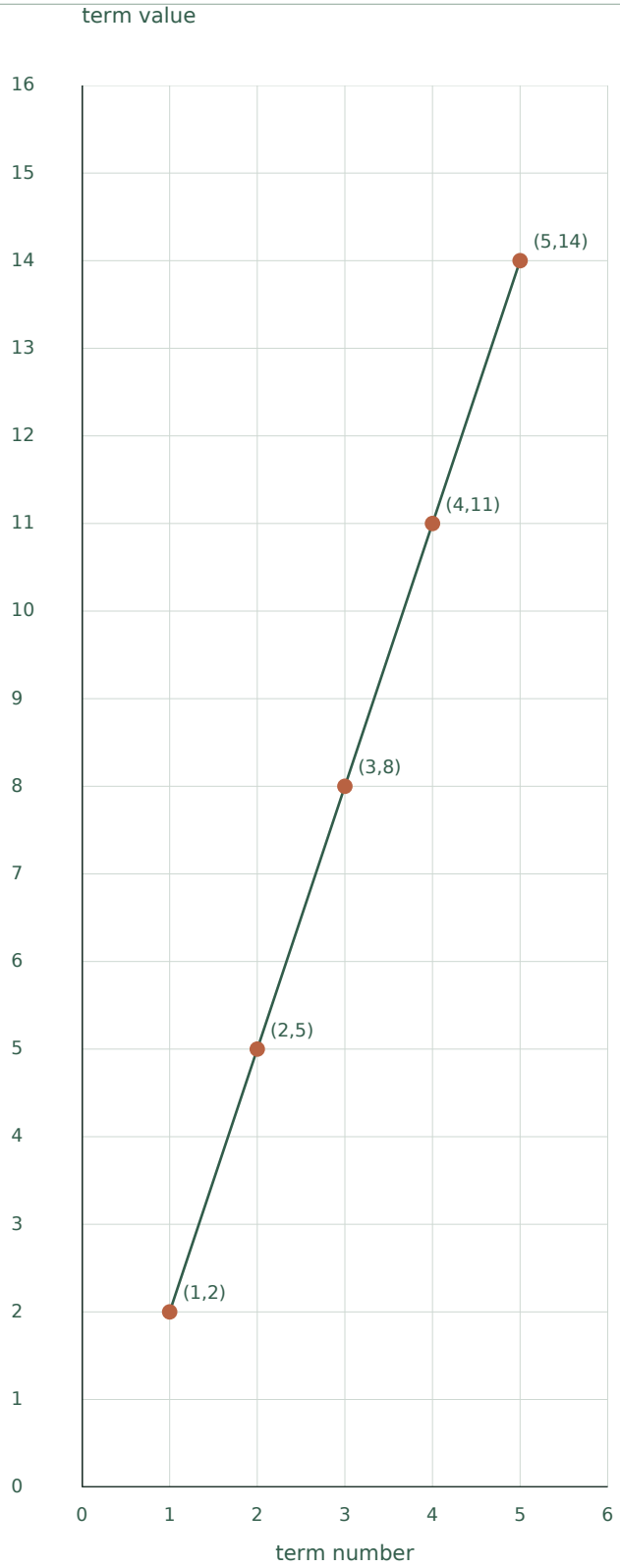
Sketch convention: dot, cross, and labeled axis scale are valid alternatives



Valid alternatives: small dots or crosses; equal spacing; scale written near axis; connect points in order.

Graphing Patterns on the Coordinate Plane: Plot Sequences and State the Rule

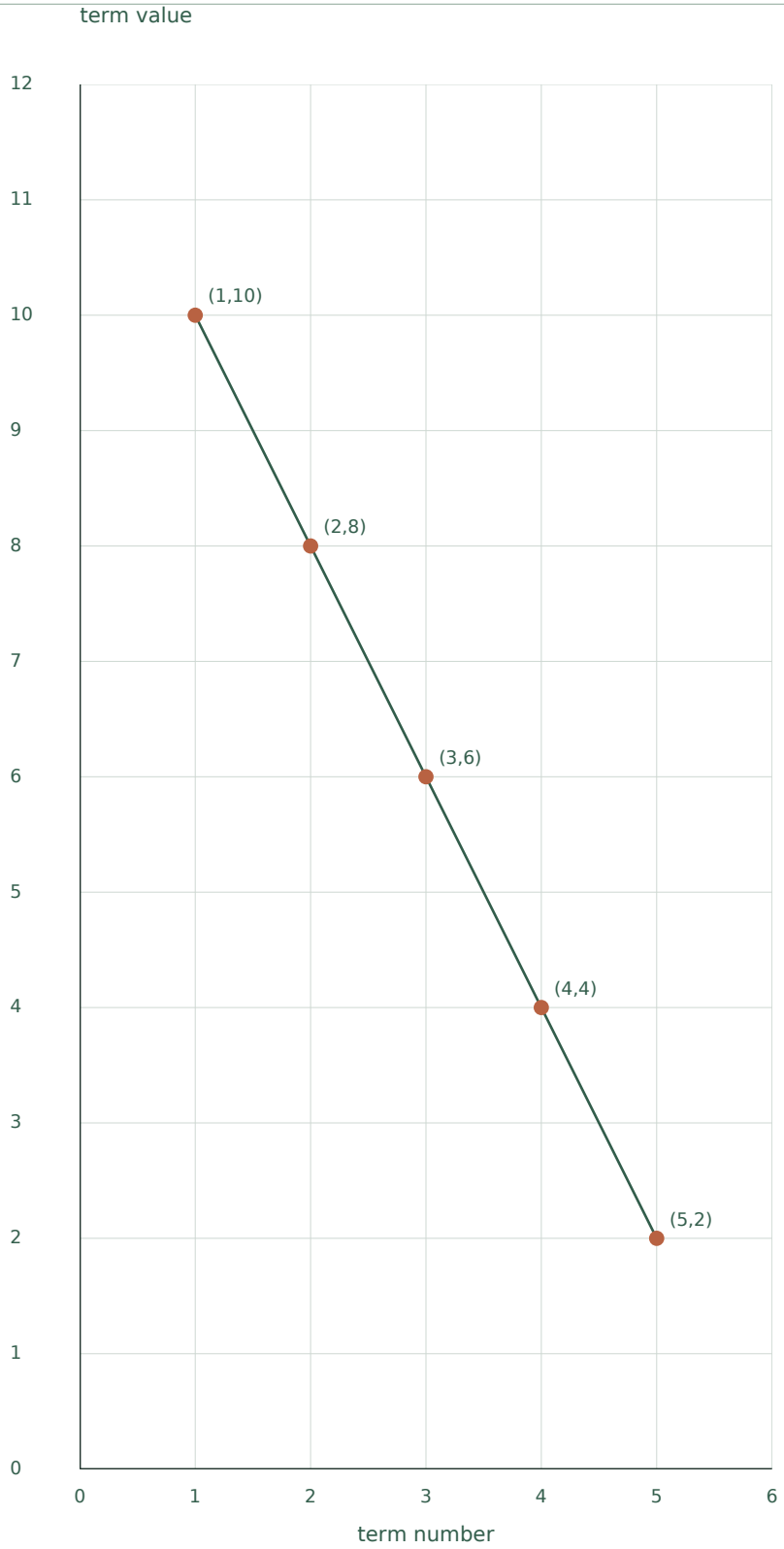
Exercise 1: plot (1,2),(2,5),(3,8),(4,11),(5,14)



Rule: start at 2 and add 3 to each term; equivalently term value = 3 times term number minus 1.

Graphing Patterns on the Coordinate Plane: Plot Sequences and State the Rule

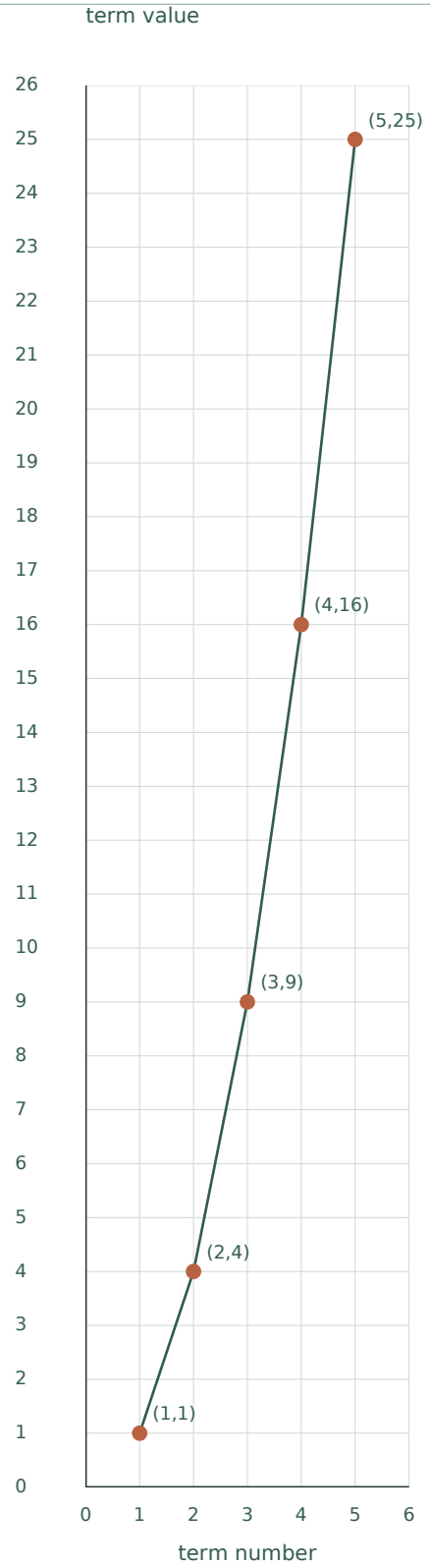
Exercise 2: plot (1,10),(2,8),(3,6),(4,4),(5,2)



Rule: start at 10 and subtract 2 from each term; equivalently term value = 12 minus 2 times term number.

Graphing Patterns on the Coordinate Plane: Plot Sequences and State the Rule

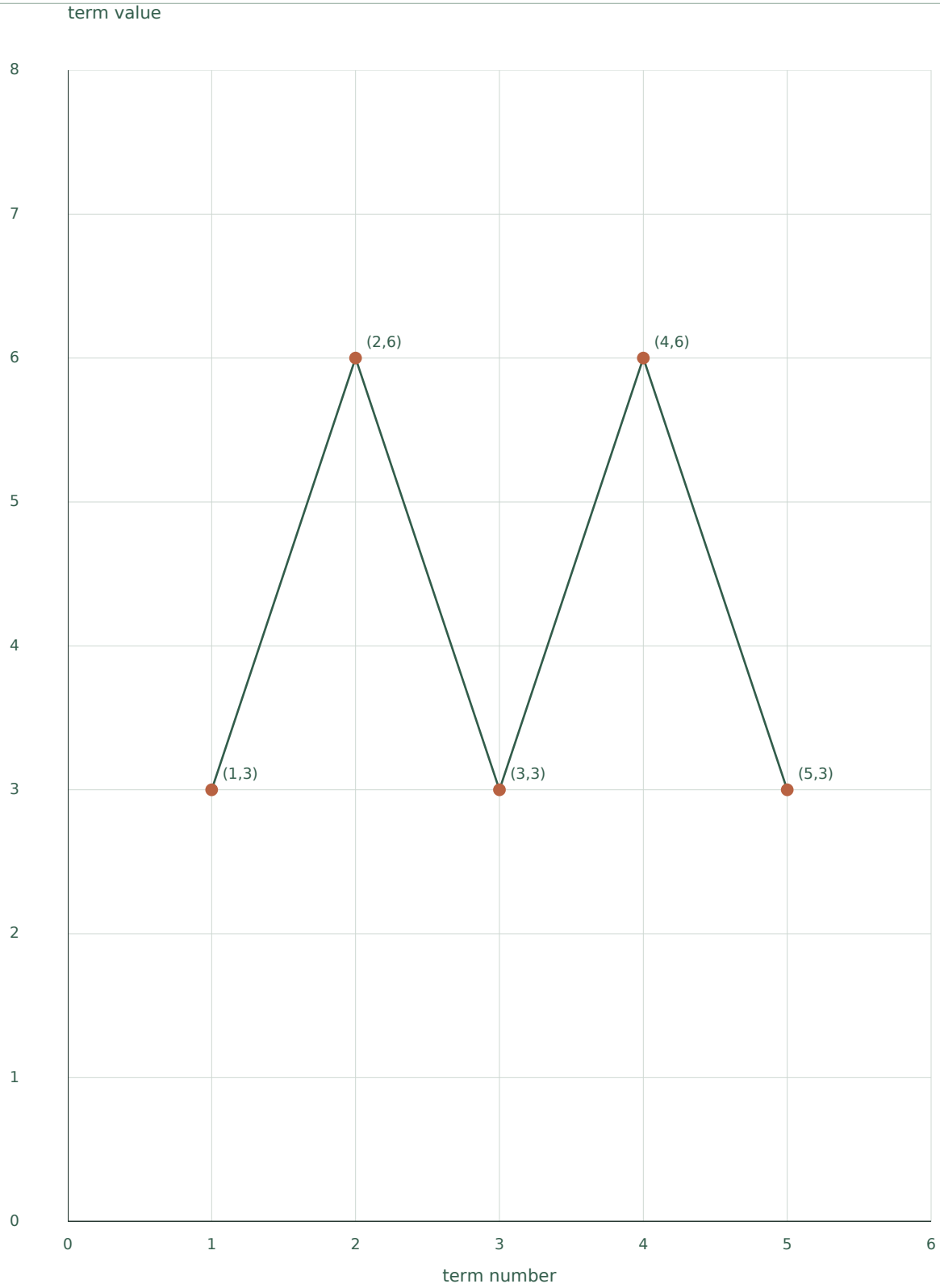
Exercise 3: plot (1,1),(2,4),(3,9),(4,16),(5,25)



Points form a curve, not a straight line. Rule: term value is the term number multiplied by itself.

Graphing Patterns on the Coordinate Plane: Plot Sequences and State the Rule

Exercise 4: plot (1,3),(2,6),(3,3),(4,6),(5,3)



Alternating pattern. Rule: odd term numbers give value 3; even term numbers give value 6.