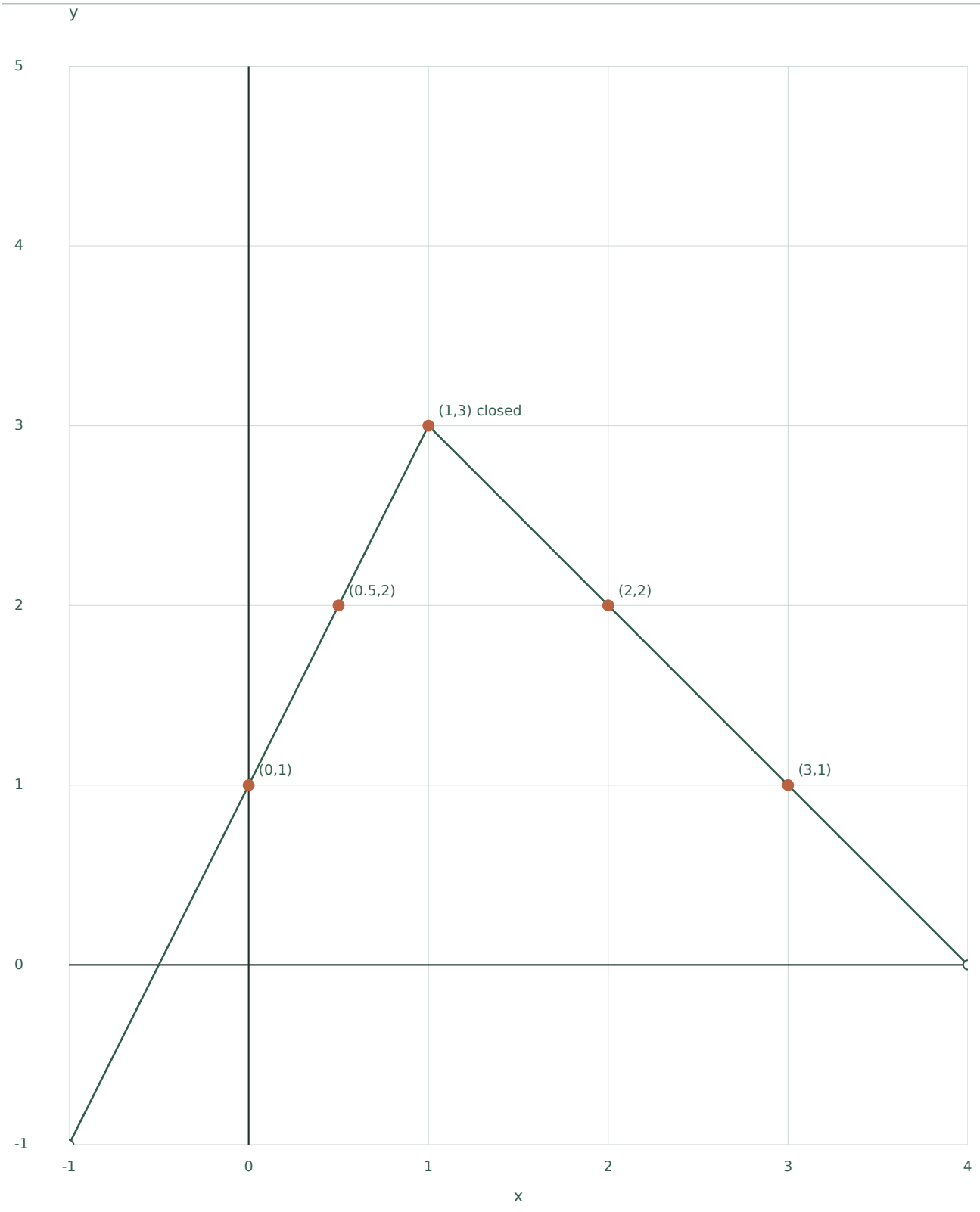
Drawing Piecewise Functions: Breakpoints and Endpoint Notation

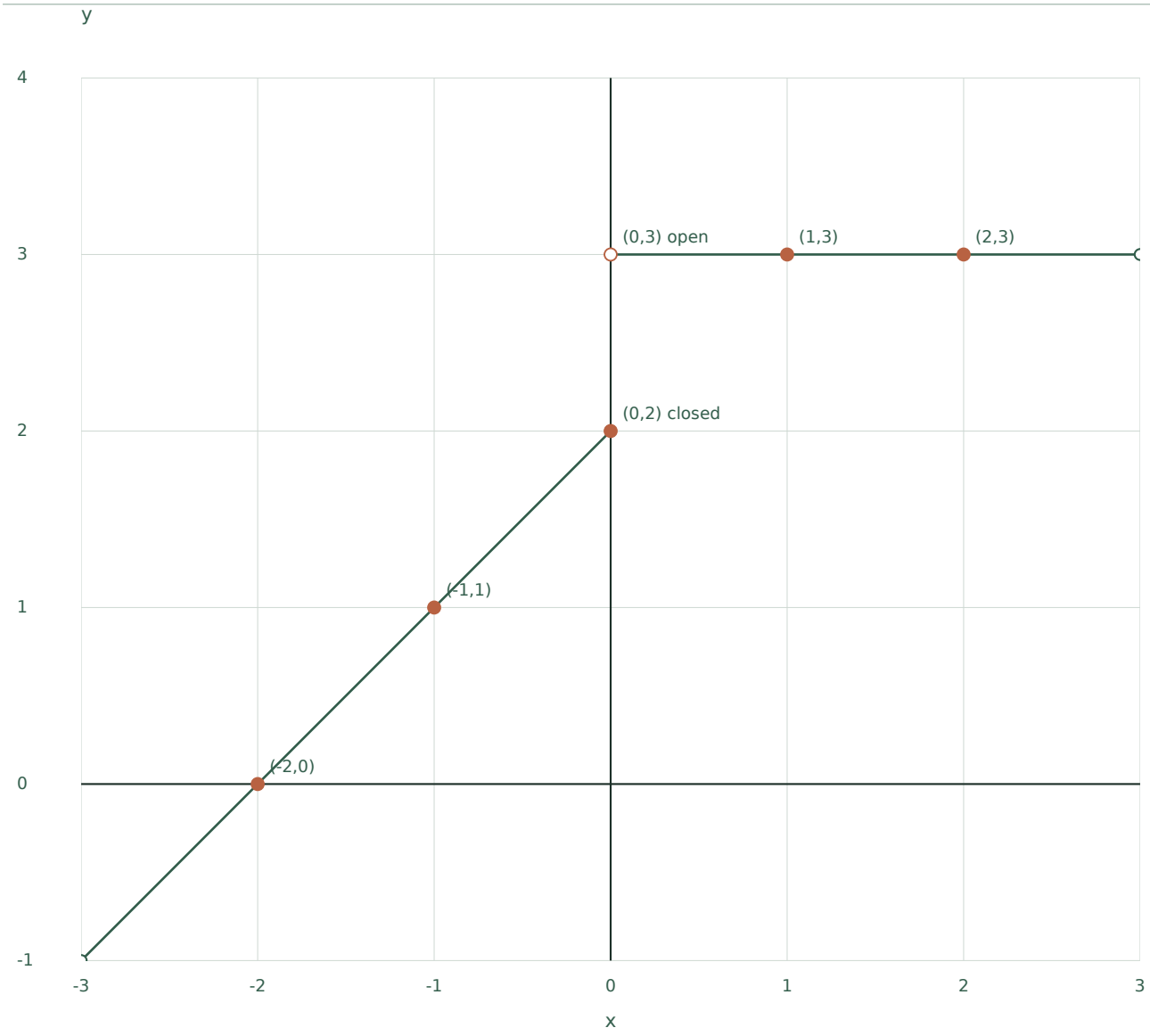
Worked Example: f(x) = 2x + 1 for x < 1; f(x) = 4 - x for x >= 1



Open dot at (1,3) on the left segment is superseded by the closed dot at (1,3) from the right segment; the closed dot is shown.

Drawing Piecewise Functions: Breakpoints and Endpoint Notation

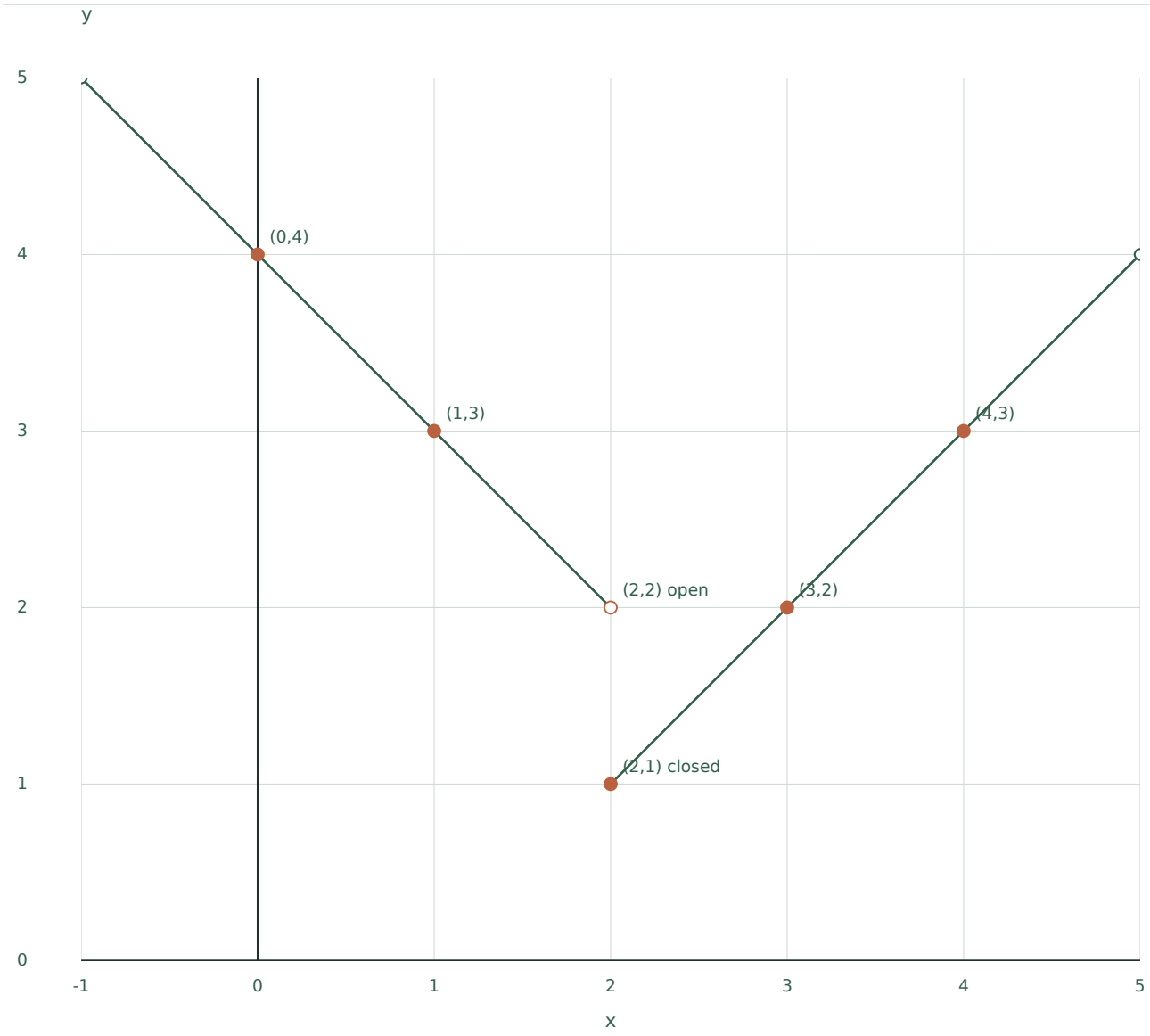
Exercise 1 Reference: g(x) = x + 2 for x <= 0; g(x) = 3 for x > 0



Closed dot at (0,2); open dot at (0,3).

Drawing Piecewise Functions: Breakpoints and Endpoint Notation

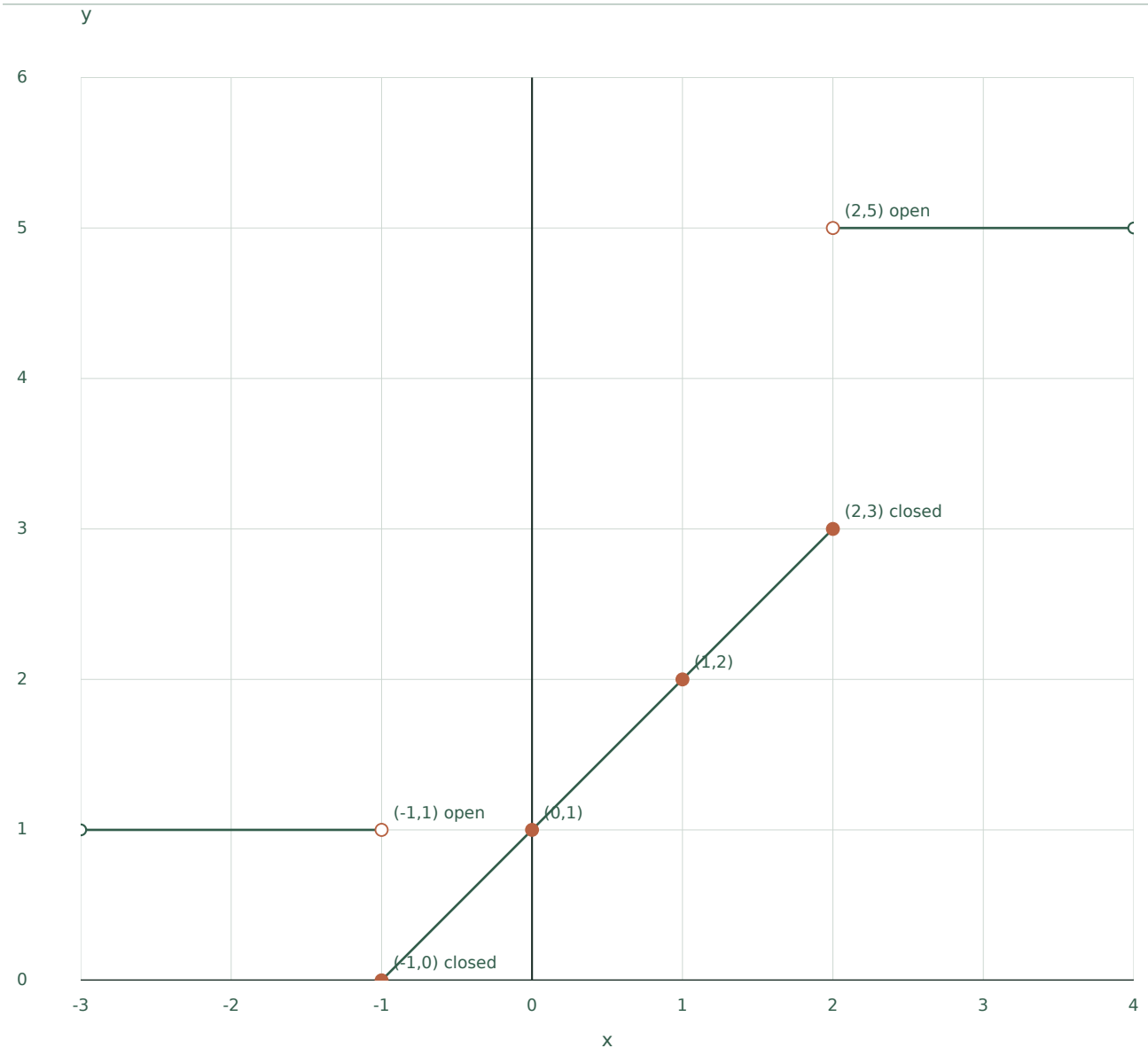
Exercise 2 Reference: h(x) = -x + 4 for x < 2; h(x) = x - 1 for x >= 2



Open dot at (2,2); closed dot at (2,1).

Drawing Piecewise Functions: Breakpoints and Endpoint Notation

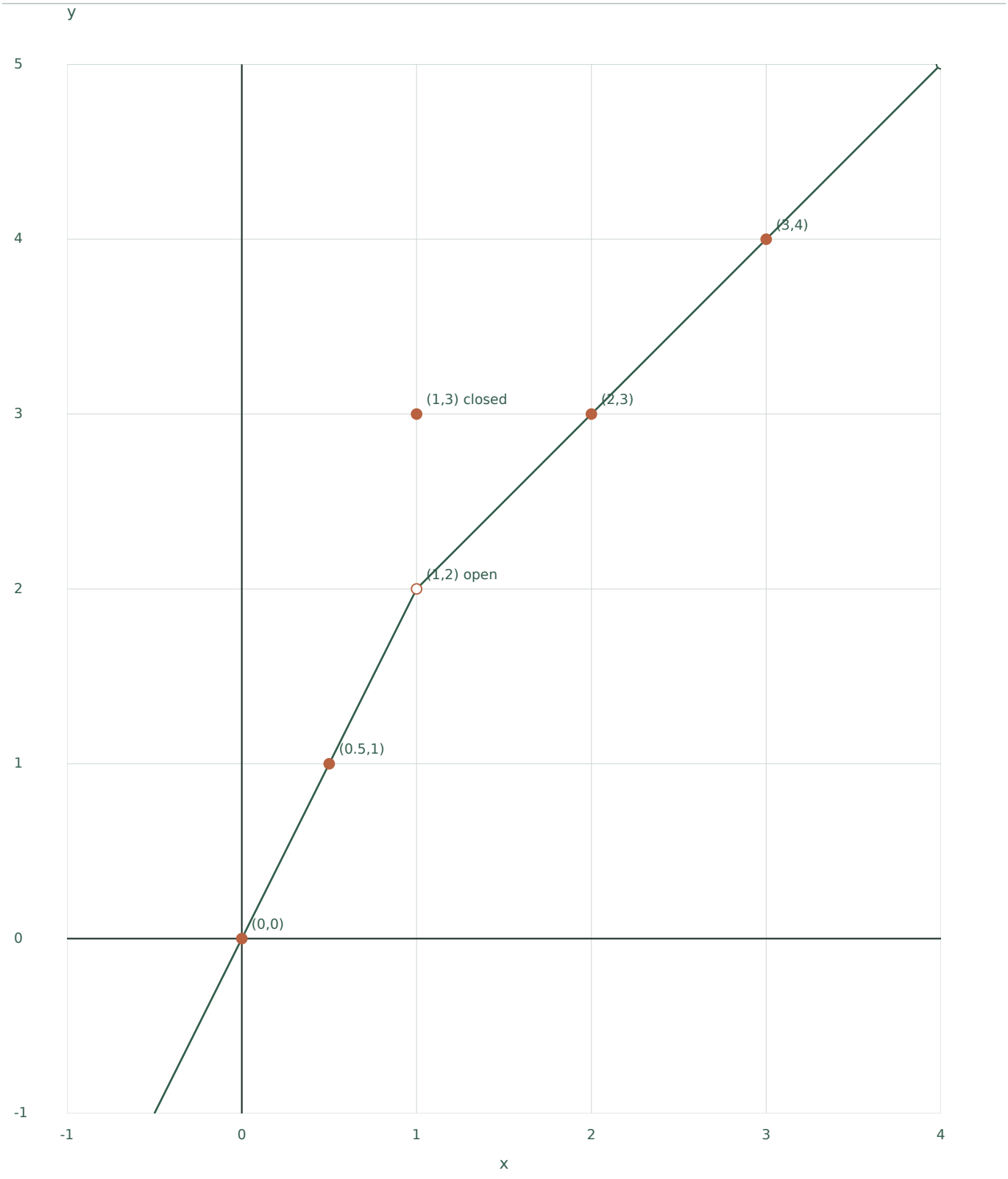
Exercise 3 Reference: k(x) = 1 for x < -1; k(x) = x + 1 for -1 <= x <= 2; k(x) = 5 for x > 2



Open at (-1,1) and (2,5); closed at (-1,0) and (2,3).

Drawing Piecewise Functions: Breakpoints and Endpoint Notation

Exercise 4 Reference: m(x) = 2x for x < 1; m(x) = 3 for x = 1; m(x) = x + 1 for x > 1



Two open dots at (1,2) (left and right segments); one closed dot at (1,3).