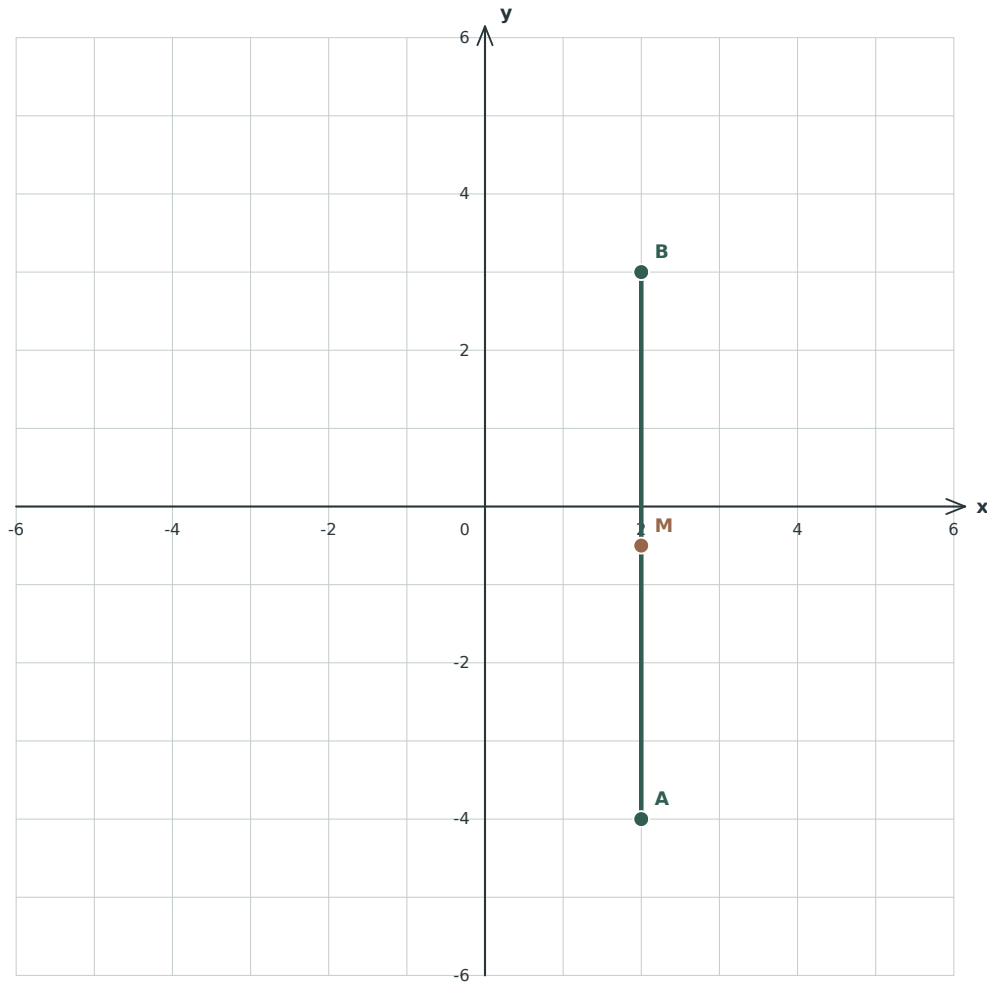


## A vertical segment

Find the coordinate midpoint and straight-line distance. Do not measure the printed segment with a ruler to obtain coordinate units.

$$A = (2, -4); B = (2, 3). M = ((x_A + x_B)/2, (y_A + y_B)/2). d = \sqrt{dx^2 + dy^2}.$$



1. Find and plot the midpoint M. Compare the completed plot.
2. Calculate dx, dy and distance squared. Compare the completed plot.
3. State the nonnegative distance. Compare the completed plot.