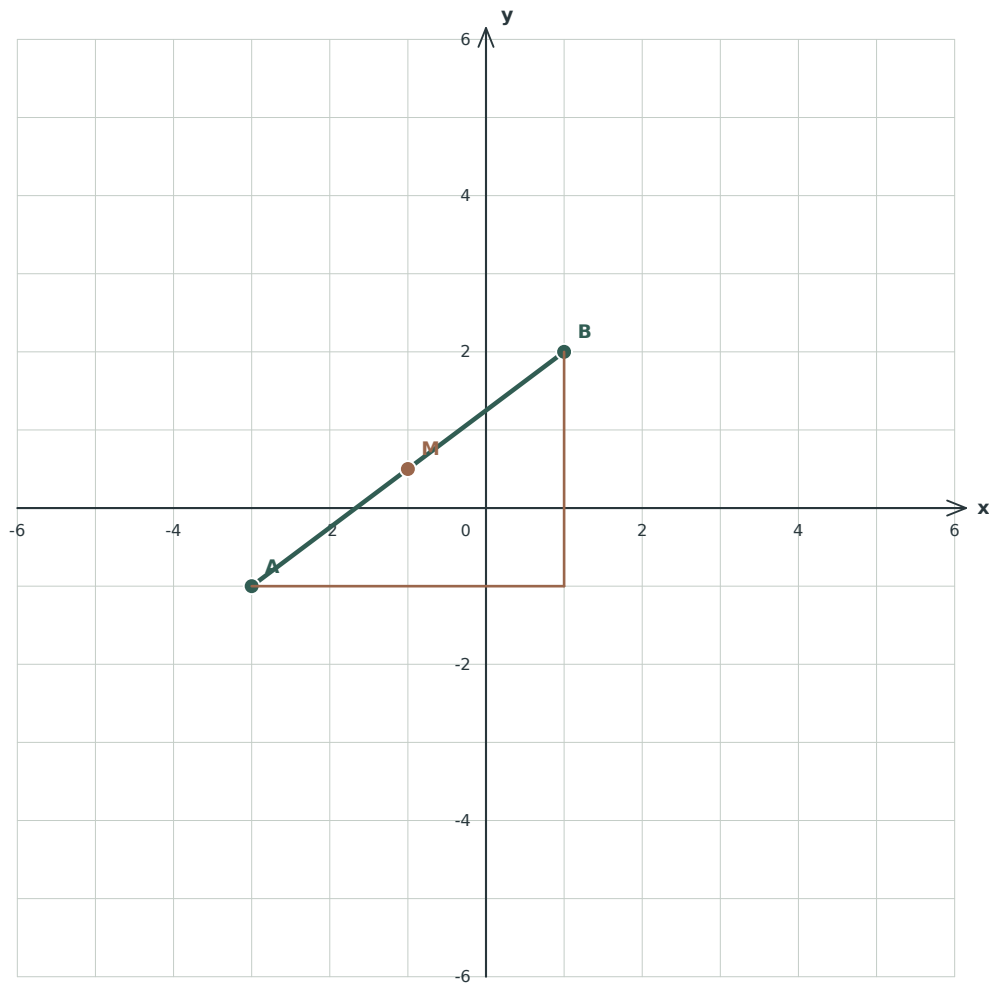


A fractional midpoint

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

$$A = (-3, -1); B = (1, 2). M = ((x_A + x_B)/2, (y_A + y_B)/2). d = \sqrt{dx^2 + dy^2}.$$



1. Find and plot the midpoint M. $(-1, 1/2)$.
2. Calculate dx, dy and distance squared. $dx=4$, $dy=3$; $dx^2 + dy^2 = 25$.
3. State the nonnegative distance. 5 units.

Original practice data / coordinate units, not ruler measurements / physical printing not tested