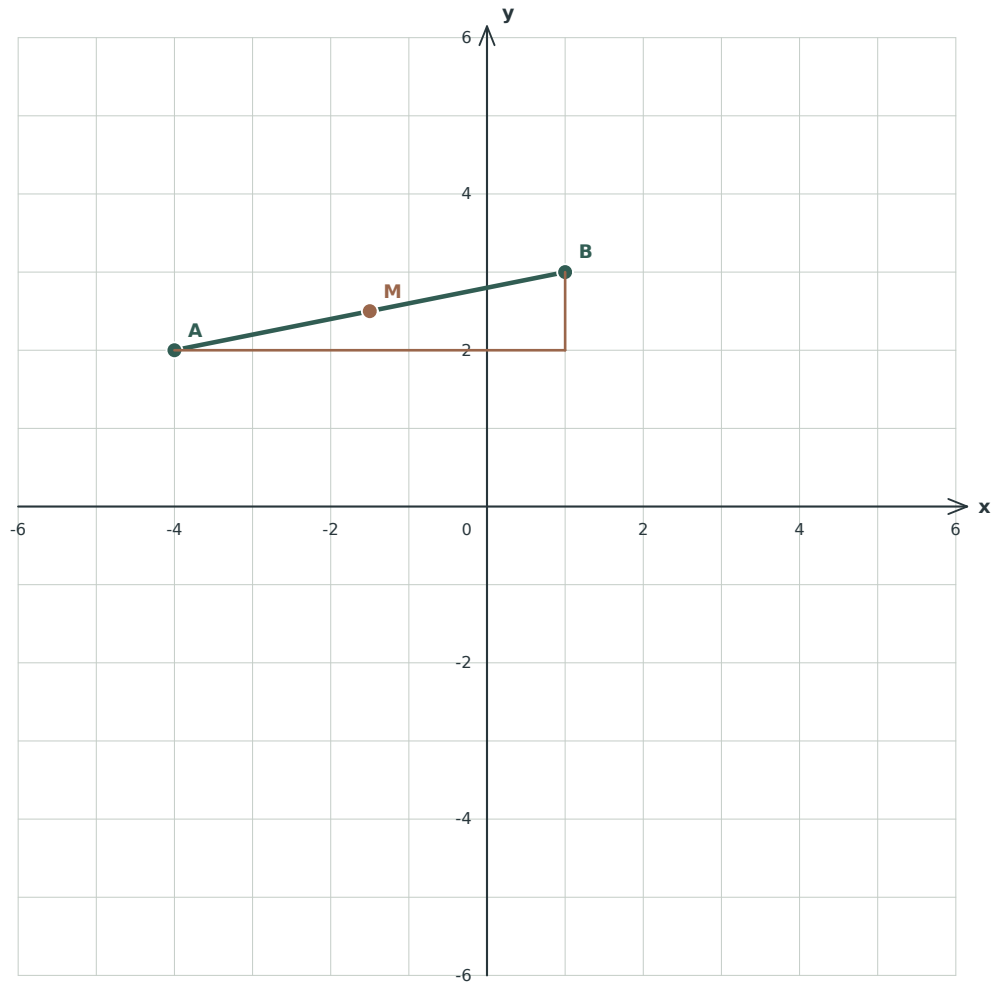


An irrational distance

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

$A = (-4, 2)$; $B = (1, 3)$. $M = ((x_A+x_B)/2, (y_A+y_B)/2)$. $d = \sqrt{dx^2+dy^2}$.



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.