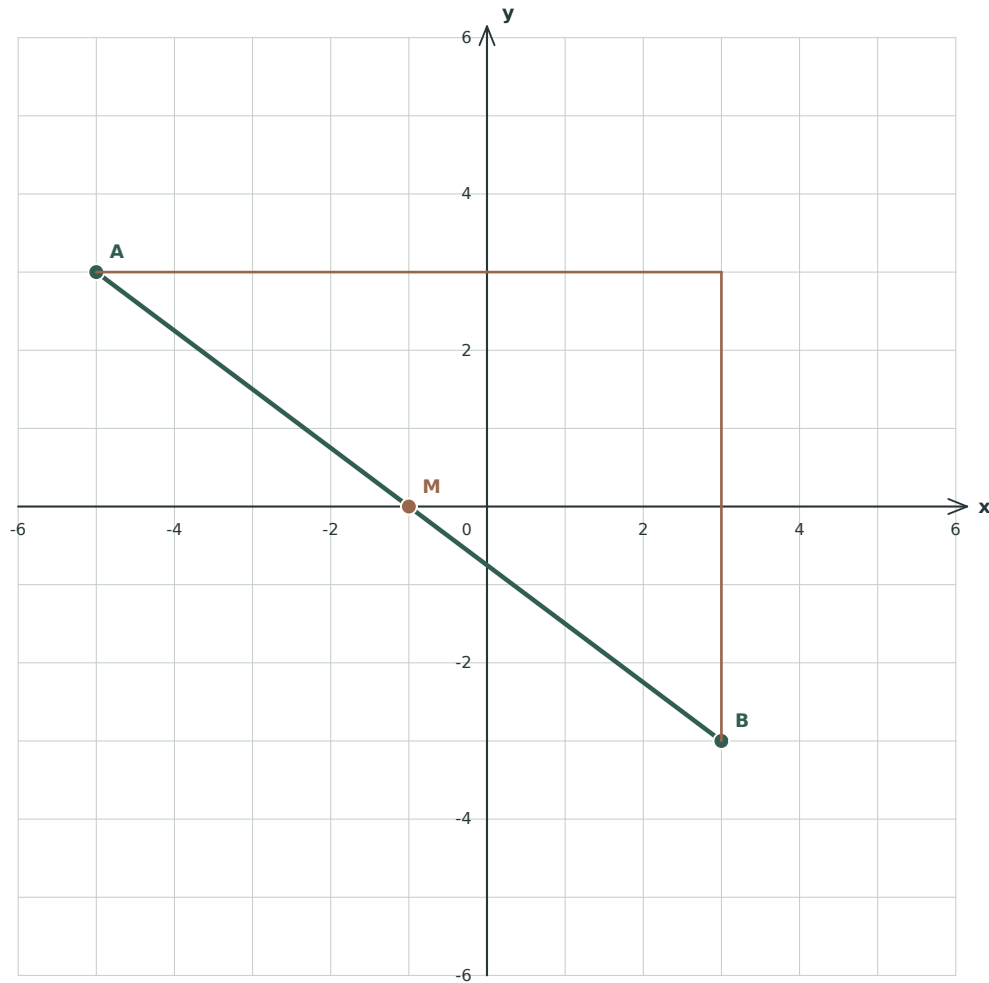


An eight-by-six displacement

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

$$A = (-5, 3); B = (3, -3). M = ((x_A + x_B)/2, (y_A + y_B)/2). d = \sqrt{dx^2 + dy^2}.$$



1. Find and plot the midpoint M. $(-1, 0)$.
2. Calculate dx, dy and distance squared. $dx=8$, $dy=-6$; $dx^2 + dy^2 = 100$.
3. State the nonnegative distance. 10 units.