Question #40432 – Math – Analytical Geometry

What are the coordinates of the midpoint of a segment whose end point are (2,-3) and (-6,-3)?

Solution

Let $A(2; -3)$ and $B(-6; -3)$ be two points.
Coordinates of midpoint C of segment AB are
$$x_C = \frac{x_A + x_B}{2} = \frac{2-6}{2} = \frac{-4}{2} = -2, \; y_C = \frac{y_A + y_B}{2} = \frac{-3-3}{2} = \frac{-6}{2} = -3.$$

Answer: (-2,-3)