A, B and C are points such that AB is parallel to the line with equation $y + \sqrt{3}\,x = 0$ and BC makes an angle of $150°$ with the positive direction of the x-axis.

Are the points A, B and C collinear?   **3**

Answer:

The points are not collinear. The proof uses either gradients or angles with the positive x-axis. See marking instructions.