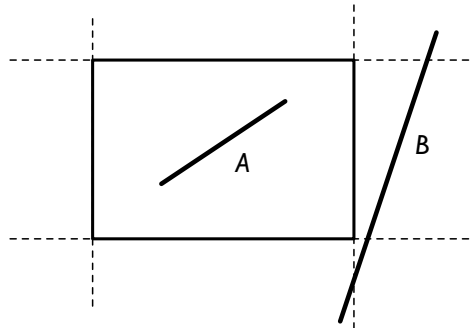2. (a) Clip the following lines against the viewport shown using

    i. a brute-force method [4]

   ii. the Cohen-Sutherland technique [7]

  iii. the Liang-Barsky method. [7]

In your answer you should number each step of the methods, stating any assumptions you make.

(b) Show how the Sutherland-Hodgman polygon clipping algorithm can be made to fail. [7]