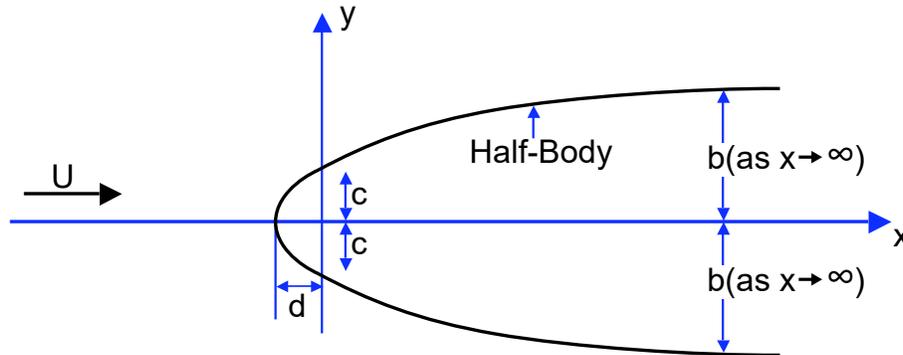


**Problem 120N**

A Rankine half-body is formed by superposition of a source and a uniform stream:



If the strength of the source is denoted by  $q$  find the dimensions  $b$ ,  $c$  and  $d$  as shown in the sketch.