

## Homework Problem H14.B

**Given:** Consider the trapezoidal area shown below

**Find:** You are asked to find the centroid of this area using integration.

- Carefully define the differential area that you will be using.
- Using this differential area, determine the area, and the  $x$ - and  $y$ -components for the location of the centroid of the area. Leave your answers in terms of  $b$ .

