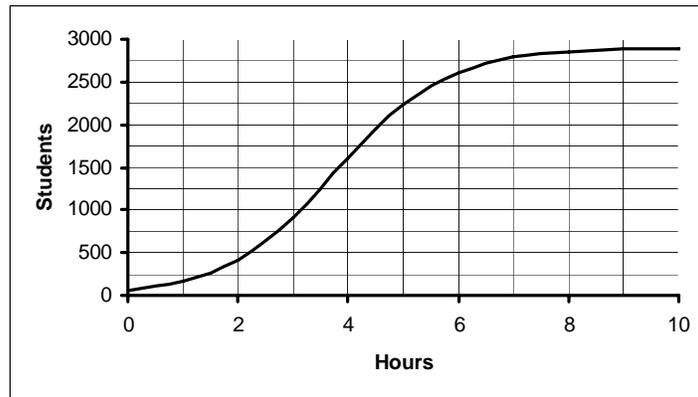


The registrar has put a counter on the WebReg system to count the total number of students registering during the day. A graph of  $N(t)$ , the total number of students who have registered during the  $t$  hours since noon, is given below.



A. Estimate  $N^{-1}(2000)$  and give an interpretation.

B. Estimate  $N'(2)$  and give an interpretation.

C. Estimate coordinates of the inflection point. Explain the significance of this point in terms of the problem.

D. Sketch a graph of  $N'(t)$ .