

The sales  $S$  of a product as a function of the time  $t$  (in weeks) is given by  $S = \frac{2300(5t+1)}{2t+5}$ . Find the instantaneous rate of change of  $S$  with respect to  $t$  for  $t = 9$  weeks.

- a. 125
- b. 51
- c. 900
- d. 100