## **Rates of Change**

Time	0	36	72	108	144
t (min)					
Temperature	40	45	60	92	120
F(t) (°F)					

A 24-pound, unstuffed turkey is placed into an oven set to 325 °F. The temperature of the turkey is collected every 36 minutes from the time the turkey was put in the oven. The function F is increasing and twice differentiable.

Estimate F'(70). Show the work that leads to your answer. Indicate units of measure. Write a sentence detailing what this value means in context with the problem.