**Quiz** #11

Name: K-e x

## You must show your work to get full credit.

A hot cup of coffee is left on a desk to cool. If t is the number of minutes since it was put on the desk and T is the temperature of the coffee in degrees Fahrenheit, then T is a function of t. That is T = f(t).

(1) Do you expect f'(t) to be positive or negative) (circle one)? Give a reason.

Int that is the temperature is decreasing, so  $\delta^{o}(t) < 0$ .

(2) If f(5) = 120, h (a) What are the units of 5?

minuites

 $\rho$  (b) What are the units of 120?

OF = degrees Fahrenhert

(3) If f'(5) = -7.1 what are the units of -7.1?

min.