

Mathematics 122

Quiz #10

Name: _____

A hot cup of coffee is left out to cool off. Let $T = T(t)$ be the temperature of the coffee in degrees Fahrenheit t minutes after being left out. Assume that $T(20) = 120$ and $T'(20) = -2$

(1) Explain why $T'(20)$ is negative.

(2) What are the units on $T(20) = 120$?

(3) What are the units on $T'(20) = -2$?

(4) Estimate $T(17)$.

$T(17) \approx$ _____