E-Learning Activity

1. $T(x) = x^2 + \log x + 98$ degrees Fahrenheit gives the temperature of an oven x minutes after it's been turned on, $0.3 < x < 15$. Complete the table below

$x < 1$	Slope of secant line from $(1, 99)$ to $(x, T(x))$	$x > 1$	Slope of secant line from $(1, 99)$ to $(x, T(x))$
$x = 0.5$		$x = 1.5$	
$x = 0.6$		$x = 1.4$	
$x = 0.7$		$x = 1.3$	
$x = 0.8$		$x = 1.2$	
$x = 0.9$		$x = 1.1$	

1a. Using the table above, estimate $f'(1)$, and then write a sentence of interpretation for this.

1b. Find the percentage rate of change when $x = 1$ and then write a sentence of interpretation for this.