1. (2 points each) True or False. Circle True only if the statement is always true.

(a) The inverse function of $g(t) = (1.04)^t$ is $g^{-1}(t) = \frac{1}{(1.04)^t}$.	\mathbf{T}	F
(b) $\ln(2^{\alpha}+2^{-\alpha})=0$	т	F
(c) If $22 = 18e^{2k}$, then $k = 1.003$.	т	F
(d) $\log(67.34(1.03)^3) = t(\log(67.34) + \log(1.03))$	т	F
(e) The graph of the function $s(t) = 2\sin(2t+3)$ is the graph of the function $y = 2\sin(2t)$ shifted 3 units to the left.	т	F
(f) If f' is increasing, then f is increasing.	т	F

2. (6 points) A function f(x) has values given in the following table. Estimate the value of its derivative at x = 1.

x .9 .98 .996 1.0 1.004 1.02 1.1 .7969 .8342 .8410 .8427 .8444 .8508 f(x).8802 f(1.004)-f(1) = ,8444-.8427 fili) = flagb) - fli) = .8410 - .8427 = fili) = f(1.004) - fl.996) = - 8444 - .8410

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