1.	(2 points each)	Circle	"True"	or "False	e" for eac	ch of the	following	problems.	Circle	"True"	only
if	the statement is	always	true.	No expla	nation is	necessa	ry.				

(a)
$$\log^{-1}(x) = \frac{1}{e^x}$$
.

(b) If a function is continuous at a point a, then it must also be differentiable at a.

(c) Suppose f is a continuous function on the interval [5,8] and that f(5) = -2 and f(8) = 3. Then f has a zero on the interval (5,8).

(d)
$$\lim_{x\to 6} \frac{|x-7|}{x-7}$$
 exists and is equal to -1.

(e) Suppose f is a continuous function and f is concave up on the interval (-10, 10). If f'(1) = -2, it is possible that f'(4) = -3.

(f) Suppose f is a continuous function, f(1) = 6, and f'(x) > 0 for all x between 0 and 5. Then it is possible that f(4) = 6.