Intermediate Value		
	nous over [a, b], and flas < 2 < Flbs or	
	(α ∈ R), there exists a real number	
c in [a, b]	such that f(c) = a.	
In English: if	F is continuous over an interval [a,	b],
it intersects	every y-coordinate in [flat, flb]].	
INT problem	guide	
	is continuous over [a, b]	
2. Calculate Ho	a) and f(b)	
- Check if	problem conditions are satisfied: for example	٤,
if looking	g for root, f(a)<0< f(b)	
- FF condit	tions are satisfied, choose a point c in	
La, b] a	nd repeat step 2 with either f(a) and f	(c)
or F(b)	and f(c).	
Extreme Value		
If a function	f is continuous over a CLOSED interval	
[a, b] it has	a global min/max on [a, b]	
If f(x), g(x)	are continuous over [a,b], g(f(x)) does not	
necessarily ha	ve a global max/min over La, b]	
g = 1	X	
7(-4		
q is contin	40US 018 [1, 3]	
g is contin		
9 (F(x)) = 1	which is not continuous at x=2	
((() () () () () () ()	† J	



