EECS 120, Fall 1993
Final
Professor Fearing

Problem #1 (23 points)

Classify the following systems. In each column, write "yes", "no", or "?" (use "?" if not decidable with given information). The input to the system is x(t) and the output is y(t). (Note: do not fill in an answer in the blacked out space for letter (e)/BIBO stable.)

	Causal	Linear	Time-invariant	BIBO stable
a. y(t) = 2x(t) + 1				
b. y`(t) + y(t) = tx(t)				
c. y(t) = x(t)cos(w_c * t)				
d.Y(w) = X^2(w), x(t) = 0 for (t				