MATH S WORKSHEET:	Pipe mode Frequencies 5/4/07
If one end open, other closed	('open-closed' pipe), get
(presence) S Node at open end Anti Node at closed and.	ments with of the state of
1st mode: AN Of	I've drown mode shape. What fraction of a wavelength A is L?
	So what is frequency f,?
I've mode: 2 draw blu next mode to	hat matches the boundary conditions, labelling N, AN locations.
	>X
open	
	What fretin of 2 is L?
- * in product Silving to the	So what is the Goog. ?
What is general rule for frequencies (mode n)?

Which harmonies of fundamental are present?

MATH S WORKSHEET: Pipe mode frequencies 5/4/07	A224
If one end open, other closed ('open-closed' pipe), get	
(pressure) S Node at open end Auti Node at closed and.	
1st mode: AN I've drawn mode shape	٠
What fronting of a wavelength 2 is L? Open - zlosed - L= 7/4	
open $L=\frac{7}{4}$ So what is frequency $f,?$ (in terms of L,c) $f:=\frac{2}{3}=\frac{4}{4}$	
and wode: AN N AN (vations.	
open 1/3 way along closed from closed and What Freetin of λ is L ? (it's when to put a register key in a clarinet) 3/4, ie $\lambda = \frac{t_3}{3}L$	i.
So what is the freq. ? fz = c 4/3 L	
What is general rule for frequencies (mode n)? In = (2n-1) = 3 = 1. Which harmonies of fundamental are present? 1.3.5	
with virumines of fundamental are present: 1.3.5	