MATHS WORKSHEET: Mode excitation by percussion. Smith	7
so Modes of a bar (eg. xylophone bow) are as follows: (extremes of vibration shown)	
mode a $f_a = 300 \text{Hz}$	
Label the nodes and antinodes for each mode.	
If you hit in the center which mode(s) are excited? What partials do you expect to hear?	
Extrapolation to proper small or zero?	
If you hit about 75% of the very along. () which	
If you hit at a general place, sketch the spectrum heard of the spectrum intensity	
Socition to spectrogram	

	MATHS WORKSHEET: Mode excitation by percussion. Emiles
Two	Modes of a bar (eg. xylopphone bow) are as follows: (extremes of vibration shown)
	N AN N AN N
	mode a $f_a = 300Hz$ $f_b = 700Hz$
A)	Label the nodes and antinodes for each mode.
<i>(</i> 2)	If you hit in the cente which mode(s) are exited? unde a year, but not ande b. What partials do you expect to hear? 300Hz.
	Are La, Ky each large, small or zero? $X_a = large$ $X_b = Z_b loo$
c)	If you hit about 75% of the way along.
	survey the same questions. since a his hode there, respect of = zero, but $\infty = \log 8$ since mode 6 is large then.
D)	If you hit at a general place, sketch the spectrum heard & the spectragram: intensity (x1) 1 foot
	spectrum 1.2, spectrogram