MATH 5 WORKSHEET 4/4/07. : Fourier series Banutt. Sketch sin(2001t) here [hint: first work out period ! ] 1 +9(4) 0.015 t (seconds) 0 0.01 0-005 -1+0 Draw on your sketch the signal sin (400 mt) Use this to sketch sin (2007+) + sin (4007t): 0 [What is combined] period? Does list shave even, odd, or no symmetry? (Check by substituting t→-t. Use the answer to improve your sketch) What is the harmonic content of this signal? 0 - 1 b1 = ? Do you expect to sound harsh or mellow (timbre?) 62 = ? b3 = ? b4: = 1

