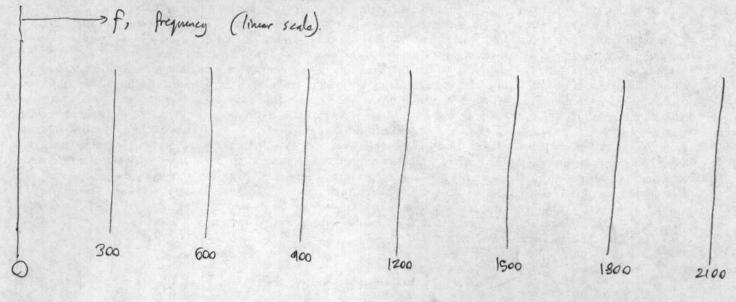
Consider the parmonic partials of a periodic signal (unsical pitch) at 300Hz:



The major 6th above this is at 500 Hz (using just' tuning patio 5:3). Add short vertical lines to the dragram giving this notes harmonic partiels.

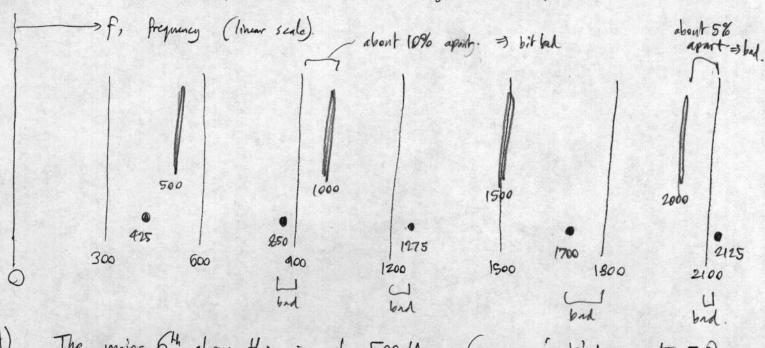
Which partrals are dissonant with the original set? *Two pure tones are dissonant if they have a freq. difference of 10% or less (ic a ratio between about 0.9 to 1.1) but not exactly equal in frequency either.

B) The tritone' (6 semitones) above the 300 Hz is very close to 425 Hz.

Add its parmonic partiel to the diagram using blobs (or some symbol). Which partials are dissonant (against those of the original 300Hz)?

C) Which interval has more dissonant partials? Which does this theory predict is more consonant?

Cousider the parmonic partials of a periodic signal (unsical pitch) at 300Hz:



The major 6th above this is at 500 Hz (using just' tuning natio 5:3). Add short vertical lines to the dragram giving this noted harmonic partials. A)

Which partrals are dissonant's with the original set? 900 k 1000; 2000 \$2100. *Two pure tones are dissonant if they have a freq. difference of 10% or less (ic a ratio between about 0.9 to 1.1) but not exactly equal in frequency either.

B) The tritone' (6 semitones) above the 300 Hz is very close to 425 Hz.

Add its parmonic partials to the diagram using blobs (or some symbol).

Which partials are dissonant (against those of the original 300Hz)?
\$50, 1275, 1700, 2125, ie downt all of them!

C) Which interval has more dissonant partials? the tritone (4 us 2 dissonant) Which does this theory predict is more consonant? the major 6th.