


```
let      vinput = vin - out
plot    db(mag(out/vinput))  ph(out) -ph(vinput)

alter   rint  resistance = 100000k
ac      dec   1000      1m      100000k
let     vinput = vin - out
plot   db(mag(out/vinput)) db(mag(out2/vinput))  ph(out) -ph(vinput)

alter   rint  resistance = 1000k
ac      dec   1000      1m      100000k
let     vinput = vin - out
plot   db(mag(out/vinput)) db(mag(out2/vinput))  ph(out) -ph(vinput)

alter   rint  resistance = 100k
ac      dec   1000      1m      100000k
let     vinput = vin - out
plot   db(mag(out/vinput)) db(mag(out2/vinput))  ph(out) -ph(vinput)

.endc

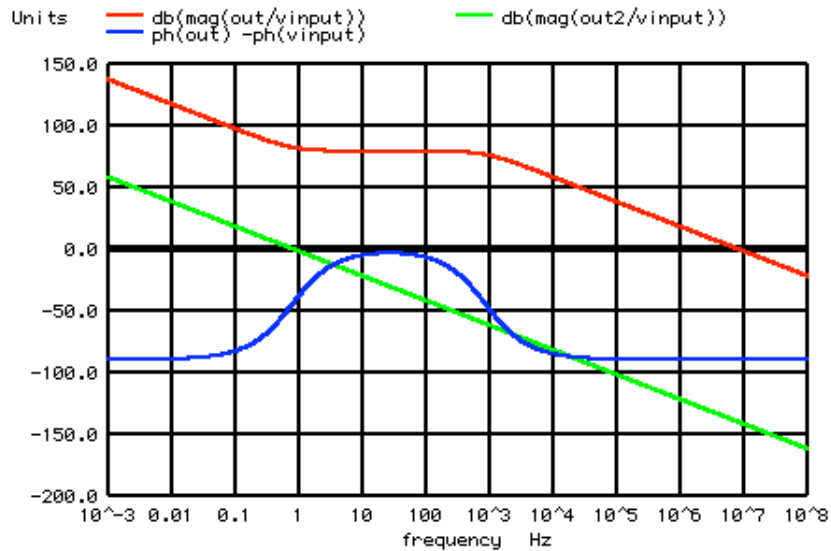
.end
```

=====END_OF_SPICE=====

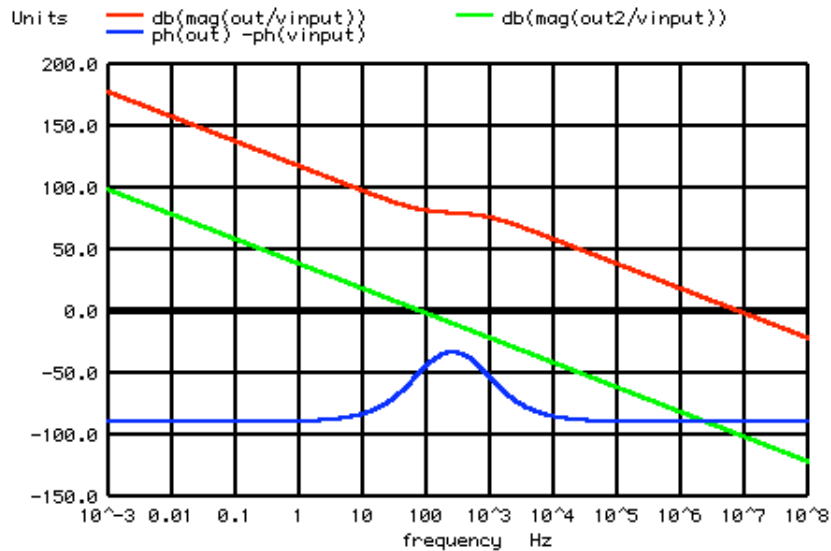
To Covert PDF to plain text click below
<http://www.fileformat.info/convert/doc/pdf2txt.htm>

Start off with a gain limited OP Amp by itself.

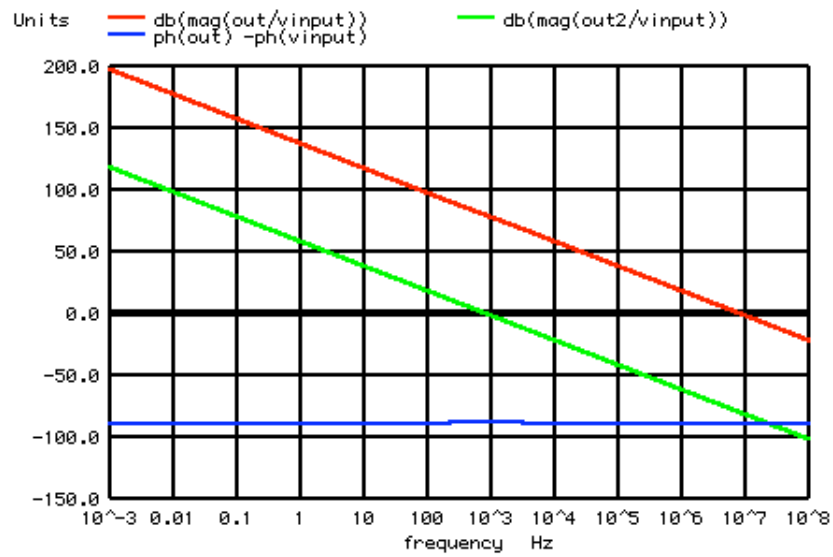
Now change the integration such that the chopper amp starts to contribute gain at frequency lower than 1Hz.



Now change the frequency to 100Hz.



Now change the frequency to 1000Hz.



Now the two Op amps are acting like a single one pole Op Amp. But really what is happening is below 1kHz the chopper is dominating all the gain while above 1kHz the higher frequency Op Amp dominates the gain.