CREATING BODE PLOTS USING PSPICE AND PSPICE A/D WITH SCHEMATICS

In Schematics:

- 1. Draw your circuit schematic, including DC power supplies.
- 2. Use a Vac symbol as the input (stimulus) source, and edit its attributes to set ACMAG=1. (A VSRC source will also work)
- 3. From the Analysis menu, choose Setup, then click AC Sweep. Define the sweep's type, range, and resolution. (Usually logarithmic(Decade) selected. Range is from a low value (e.g. 1 or 0.01) to a high value (e.g. 1Meg or 100Meg)
- 4. Simulate.

When the simulation ends, Probe starts and displays any probes placed in the circuit. In Probe:

Magnitude Plot:

- 1. From the Trace menu, choose Add Trace.
- Select DB() and put in the output node/input node. {DB stands for Decibels}
 (e.g. if V(R1:1) is my output node and V(V1:+) is my input node => I would put DB(V(R1:1)/V(V1:+)) in the Trace Expression Box.)

Phase Plot:

- 3. From the Plot menu, choose Add Plot to Window.
- 4. Select the empty plot by clicking on it to move the SEL>> label.
- 5. From the Trace menu, choose Add Trace.
- Select P() and put in the output node/input node. {P stands for Phase} (e.g. if V(R1:1) is my output node and V(V1:+) is my input node => I would put P(V(R1:1)/V(V1:+)) in the Trace Expression Box.)