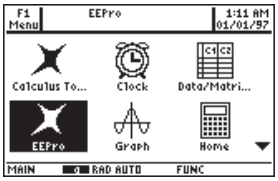
EE*Pro® App

TI-89 Titanium

Voyage™ 200

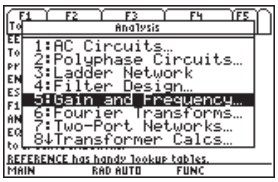
This App by da Vinci Technologies Group, Inc., is an all-inclusive App for electrical engineering students, which helps them study concepts for EE coursework. The App is organized into analysis, equations, and references.

Calculate Transfer Function



1

To start EE* Pro App, press APPS. Select 1: FlashApps and then "EE*Pro."

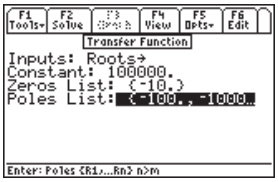


2

Press F2: Analysis and select 5: Gain and Frequency.

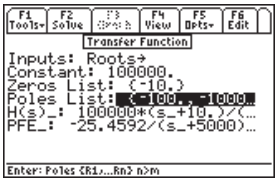
3

Select 1: Transfer Function and choose Roots for Inputs.



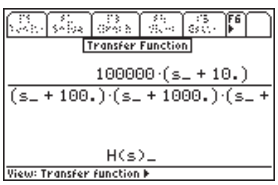
4

Enter 100000 for Constant, {-10} for Zeros, and {-100, -1000, -5000} for Poles.



5

Press F2 to calculate H(s)_ and PFE_.



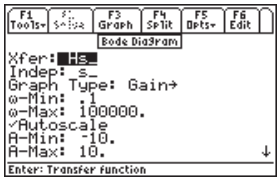
6

To view H(s)_ in Pretty Print format, highlight H(s)_ and press F4. Press ESC.

7

Press ESC to return to the Gain and Frequency screen and select Bode Diagram.

Graph the Gain Plot for the Transfer Function



1

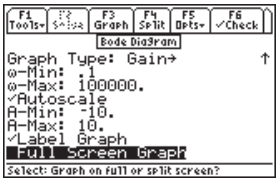
In the Bode Diagram screen, the Xfer field contains the Transfer Function H(s)_ calculated in the previous example. Choose s_ for Indep.

2

Choose Gain.

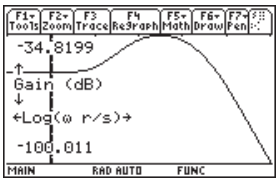
3

Enter 0.1 for ω-Min as the start of the radian frequency plot. Enter 100000 for ω-Max as the endpoint of the radian frequency plot.



4

Put a check mark in the Autoscale and Label Graph fields.



5

Put a check mark on Full Screen graphing mode. If this field is not checked, the graph will default to the right half of the screen. Press F3 to graph the transfer function.

6

Press 2nd followed by APPS to toggle between the input screen and the graph window when split-mode is active.