
Bode Plot

Plotting Frequency Response from
Experimental Data

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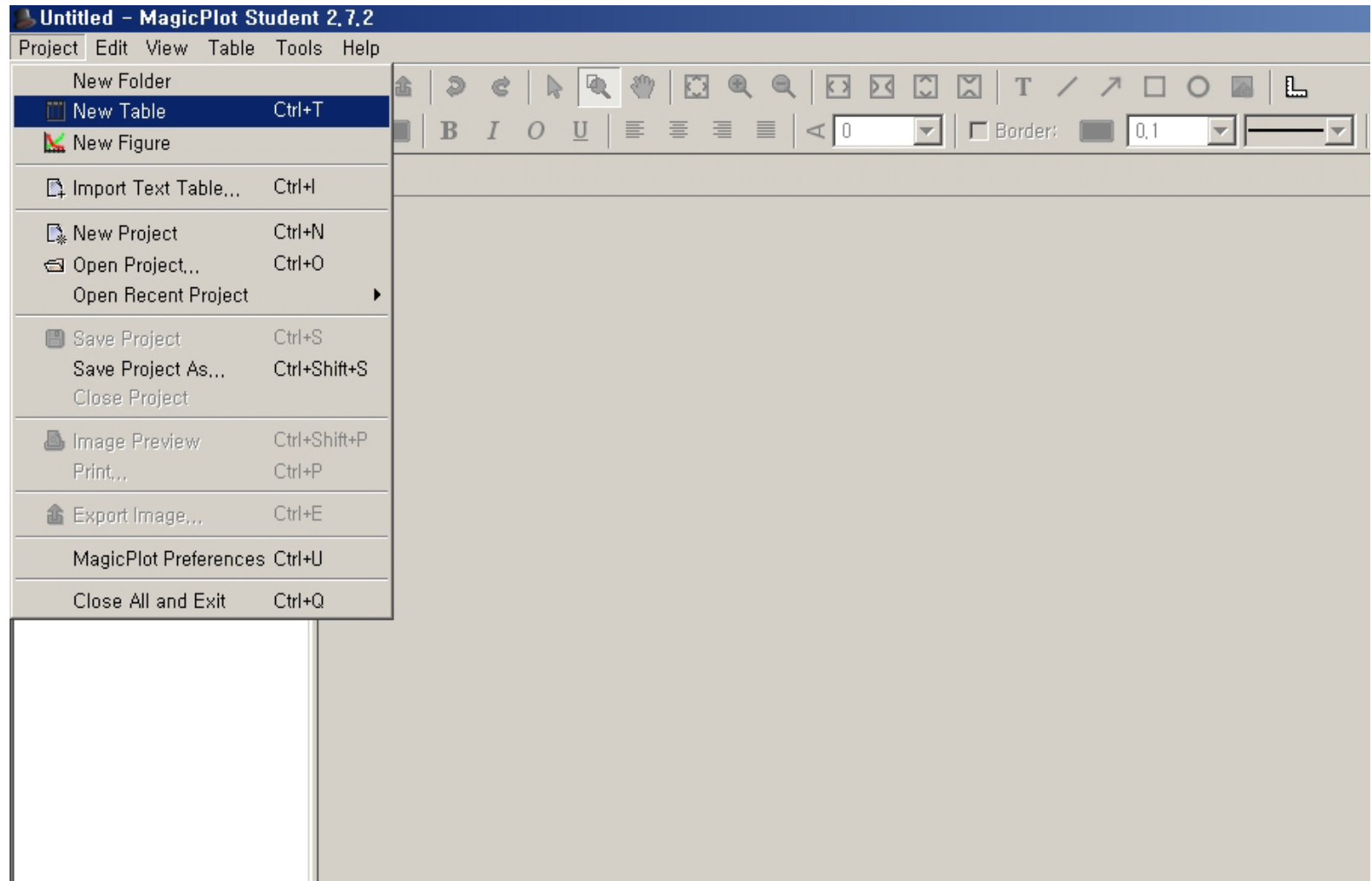
Try new color map plots in MagicPlot Pro 2.7.2! It's easier and faster than you can imagine.

This update is free for current MagicPlot 2.5 users.

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	MagicPlot Student	MagicPlot Pro
Version 2.7.2 September 18, 2016 What's new in 2.7.2? Release history Get older version	Limited functionality Free Personal and educational use only What is disabled here? <ul style="list-style-type: none">- Vector image export- Custom fit equations- Data processing- Multiple axes- Annotations/Drawing (!)- Color map plots (!)- Figure templates- Batch processing View full list of features	Full-featured version Academic: \$99 Commercial: \$198 Price per computer, volume discounts are available Ordering page Download and try 30 days for free! Without registration
Windows 2000, XP, Vista, 7, 8, 10 (32/64 bit)	MagicPlotStudent.exe 2.0 MB	MagicPlotPro.exe 2.1 MB

New Table from Project Menu



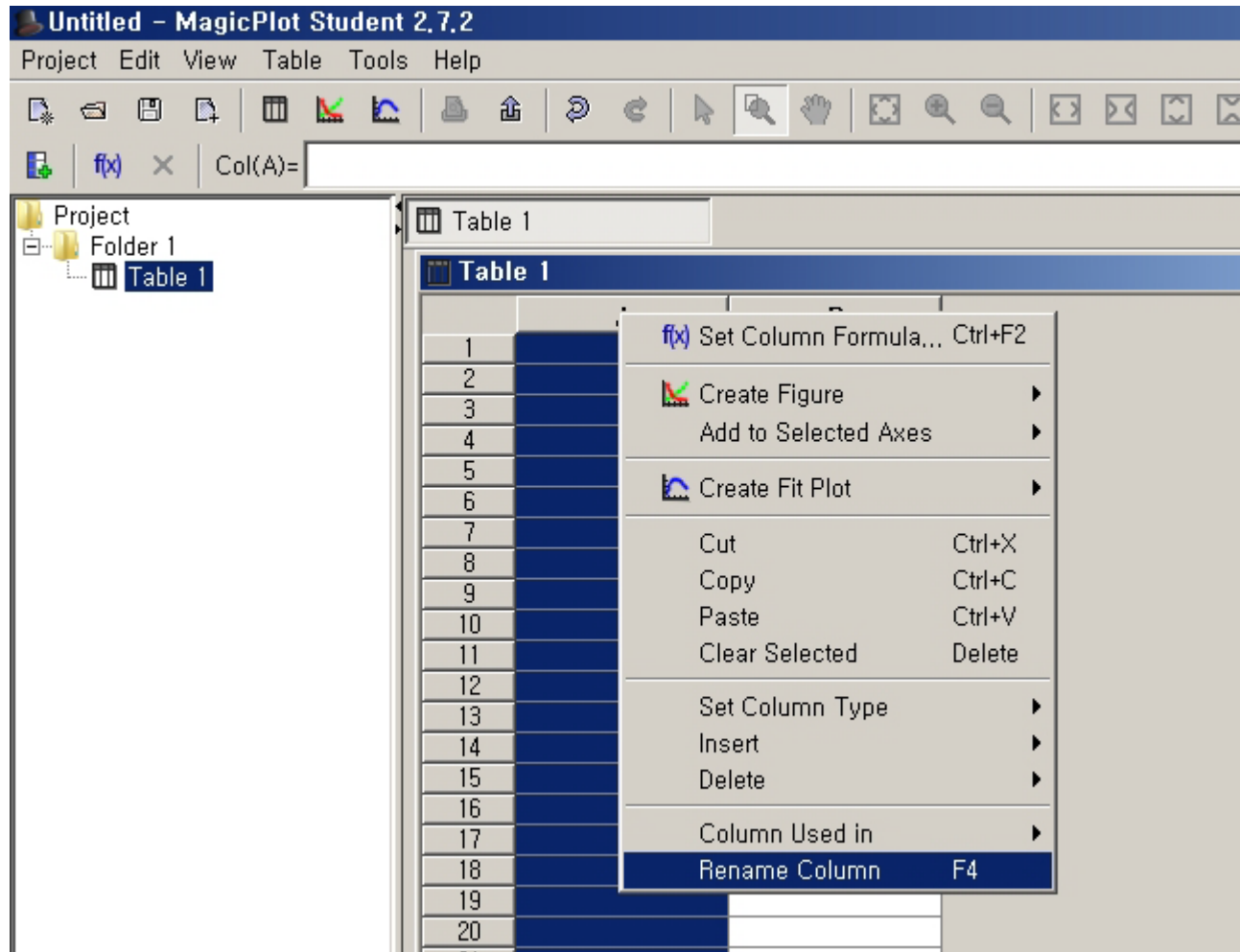
Fill in Table

The screenshot shows the MagicPlot Student 2.7.2 interface. The main window displays a table with two columns, A and B, and 15 rows. The data for rows 1 through 8 is as follows:

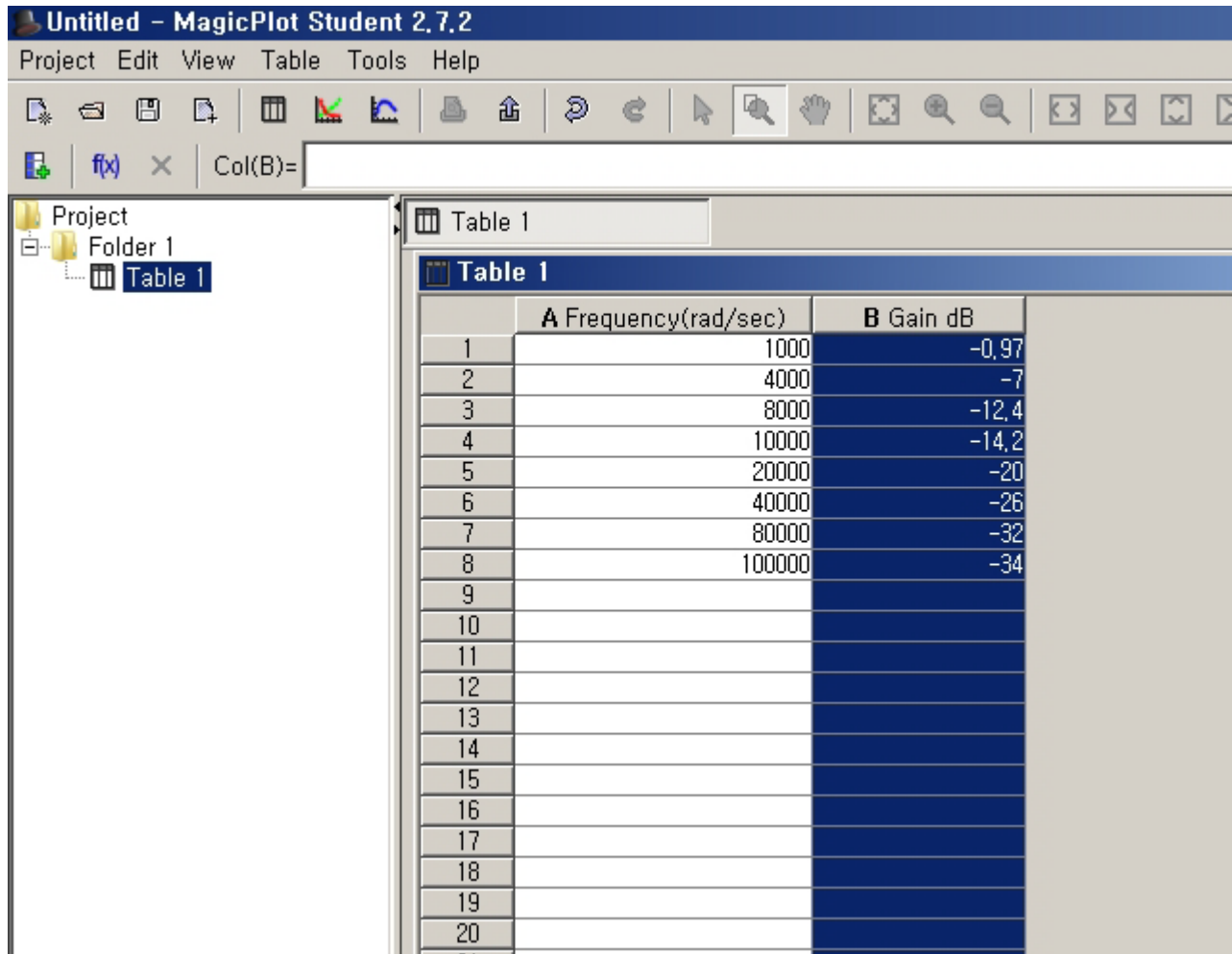
	A	B
1	1000	-0,97
2	4000	-7
3	8000	-12,4
4	10000	-14,2
5	20000	-20
6	40000	-26
7	80000	-32
8	100000	-34
9		
10		
11		
12		
13		
14		
15		

Row 9 is highlighted in blue. The software interface includes a menu bar (Project, Edit, View, Table, Tools, Help), a toolbar with various icons, and a project tree on the left showing the current project structure.

Rename Column



Rename Column

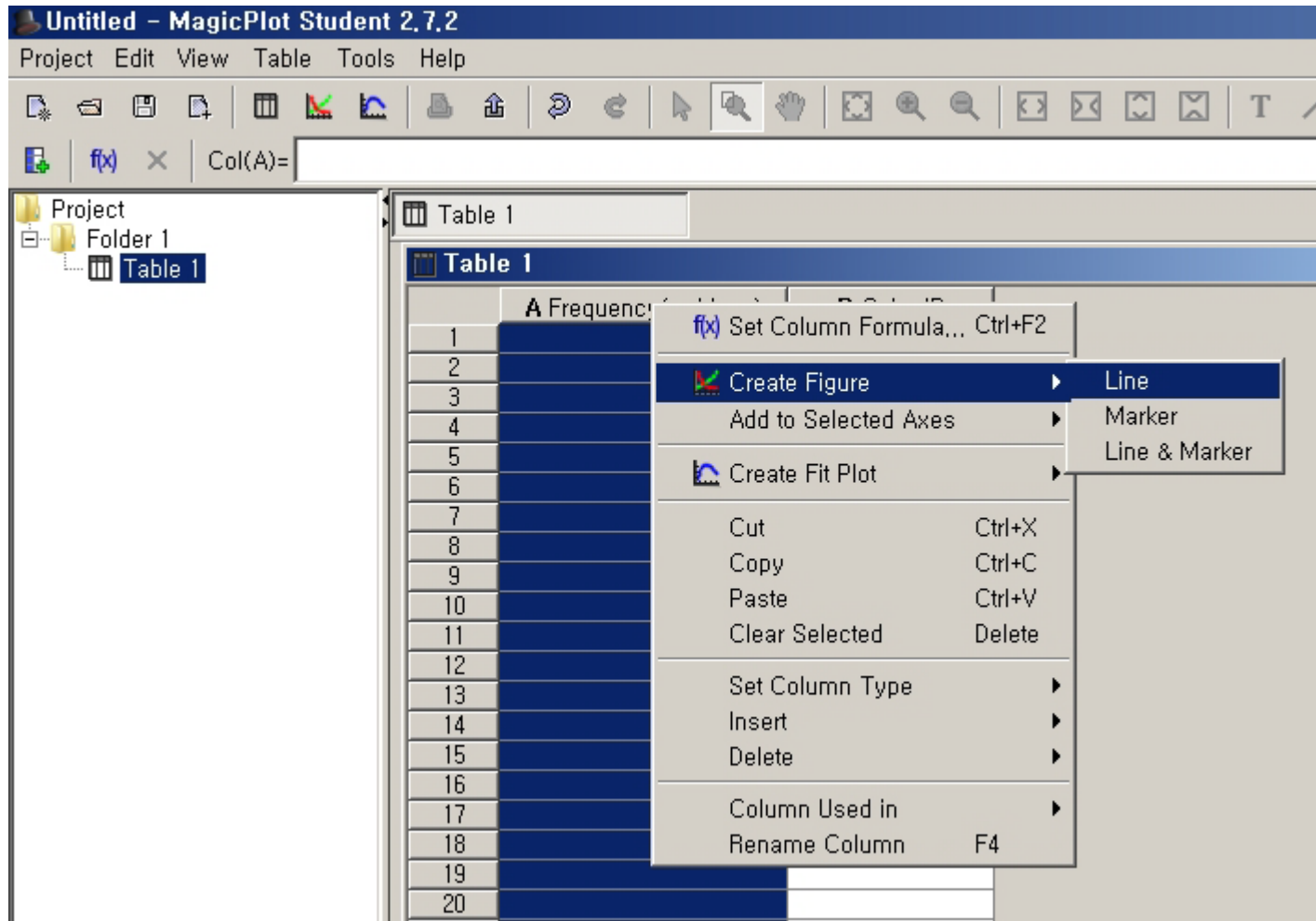


The screenshot shows the MagicPlot Student 2.7.2 interface. The main window displays a table with two columns: 'A Frequency(rad/sec)' and 'B Gain dB'. The 'B' column is highlighted in blue, indicating it is selected for renaming. The table contains the following data:

	A Frequency(rad/sec)	B Gain dB
1	1000	-0.97
2	4000	-7
3	8000	-12.4
4	10000	-14.2
5	20000	-20
6	40000	-26
7	80000	-32
8	100000	-34
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Create Figure

- Select Line



Add B Column

- Select B column and press Add

The screenshot displays the MagicPlot Student 2.7.2 interface. The main window shows a blank plot with the Y-axis labeled 'Y Axis Title' and the X-axis labeled 'X Axis Title'. The Y-axis scale ranges from 0 to 1, and the X-axis scale ranges from 0 to 0.6. A dialog box titled 'Add Data to Axes 1' is open in the foreground. It features two columns: 'All Table Columns' and 'Columns for X & Y'. The 'All Table Columns' column lists 'A Frequency(rad/sec)' and 'B Gain dB', with 'B Gain dB' selected. The 'Columns for X & Y' column is currently empty. The dialog includes an 'Add >' button, a '< Rel' button, and a radio button labeled 'A Frequency(rad/sec)'. At the bottom of the dialog are 'Line', 'Add to Figure', 'Add More', and 'Cancel' buttons. The background shows the software's menu bar (Project, Edit, View, Table, Tools, Help) and a toolbar with various icons. A project tree on the left shows a folder named 'Folder 1' containing 'Table 1' and 'Figure 1'.

Add B column

- After B column added, select **A** column for **X** axis, then press **Add to Figure**

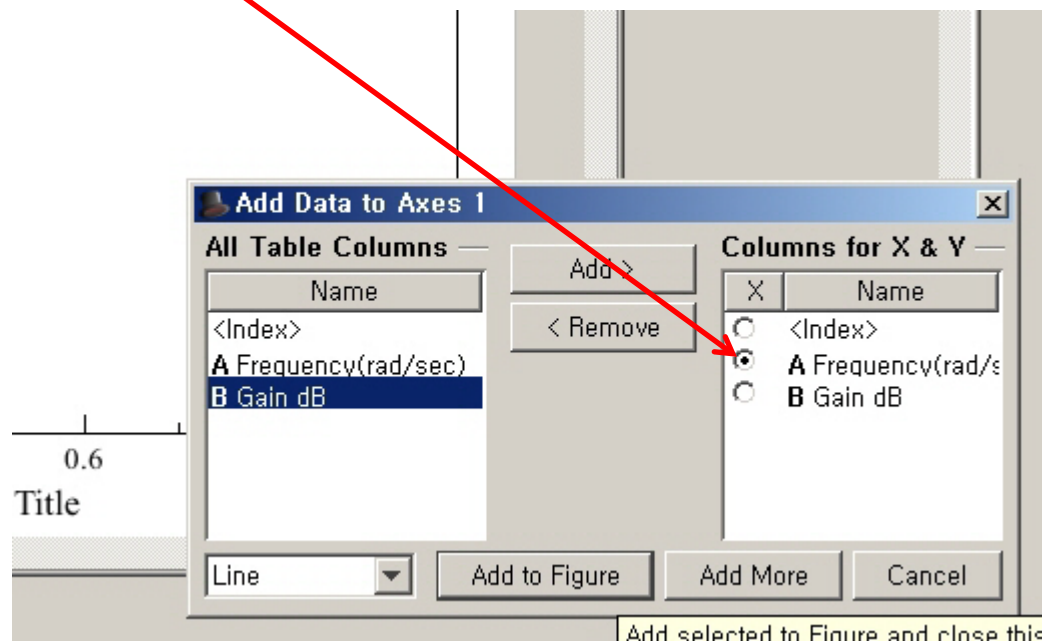
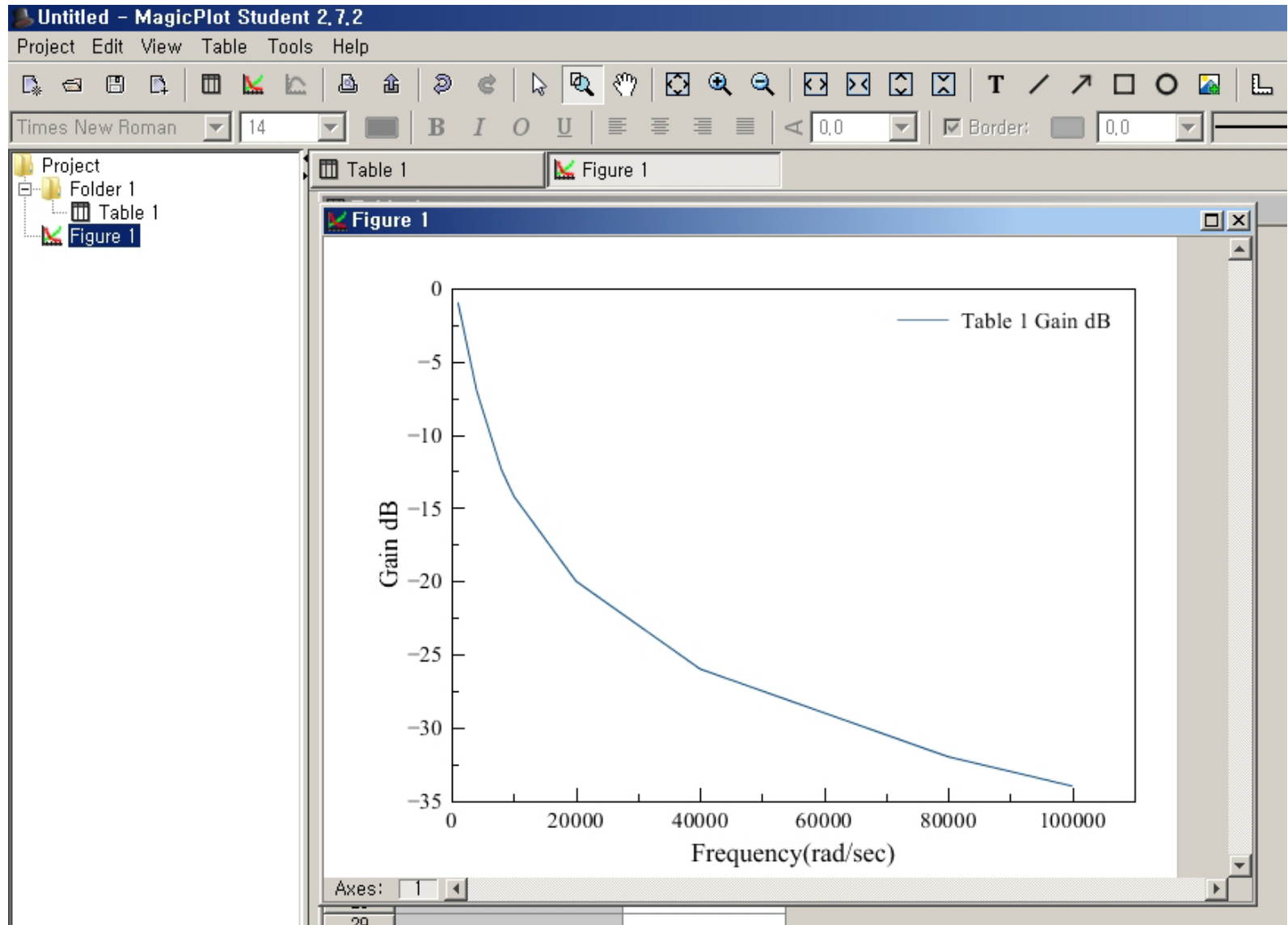


Figure 1 shows up



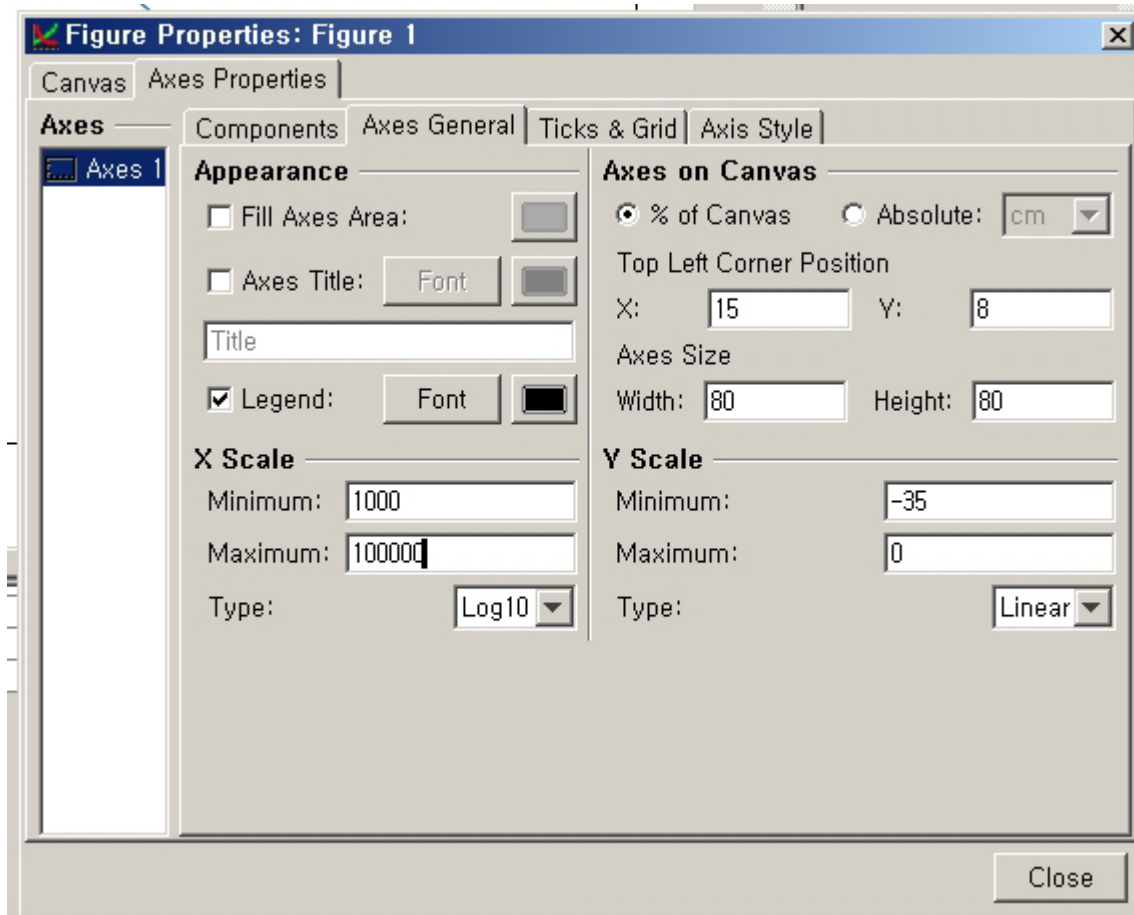
Change Figure Properties

The screenshot shows the MagicPlot Student 2.7.2 interface. The 'Edit' menu is open, and the 'Figure Properties' option is highlighted. The main window displays a Bode plot with a blue curve on a grid. The y-axis is labeled 'B' and has tick marks at 0, -5, and -10. The x-axis is not explicitly labeled but represents frequency. The plot shows a curve that starts at 0, remains relatively flat until a certain frequency, then begins to decrease, crossing -5 and approaching -10.

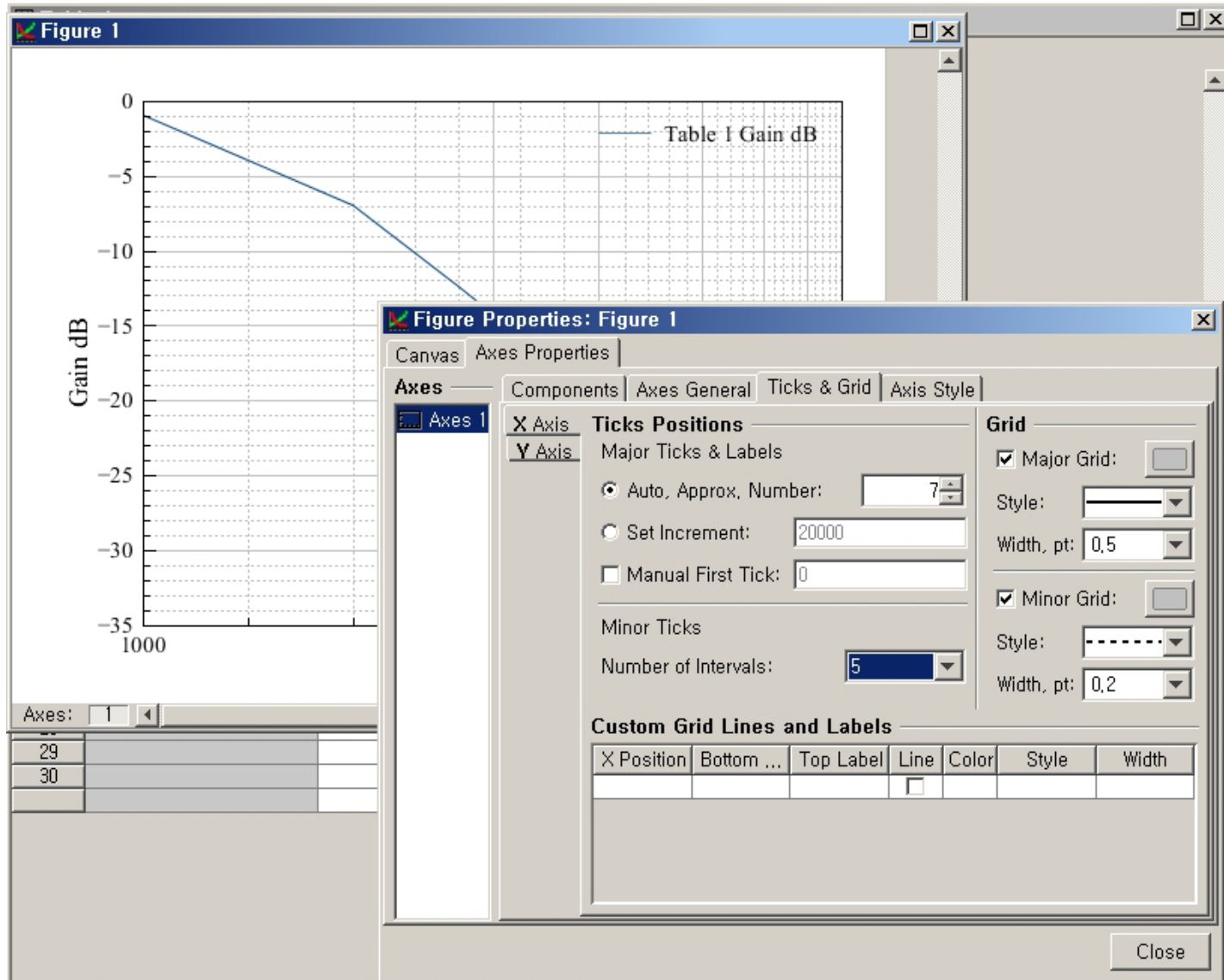
Frequency (approx.)	Value (B)
0	0
1	-0.5
2	-1
3	-1.5
4	-2.5
5	-4
6	-6
7	-8
8	-10

Select Axes General

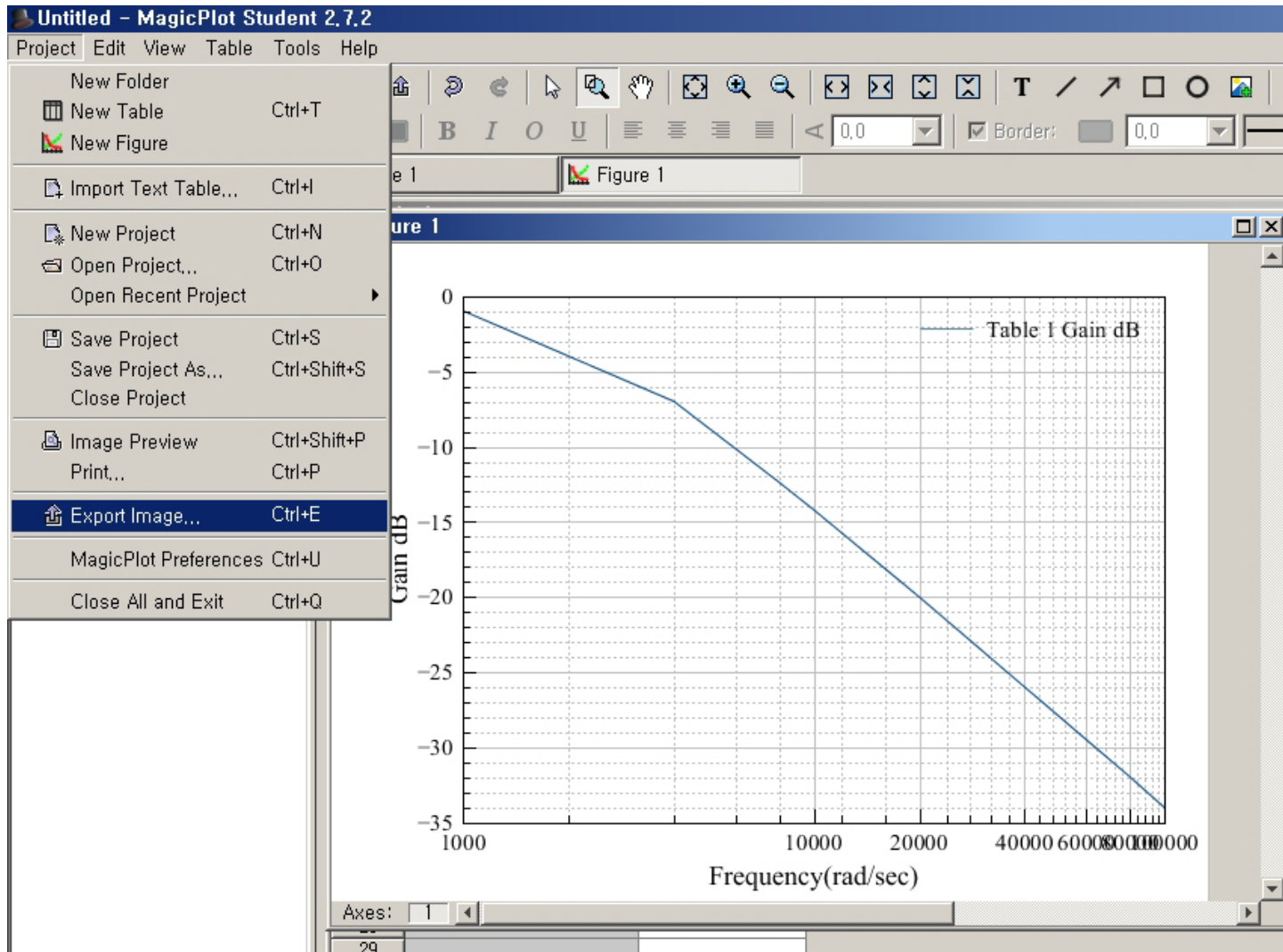
- Change X Scale Minimum and Maximum
- Change X Scale Type to **Log10**



Select Ticks & Grid



Export Image



Save Project

The screenshot shows the MagicPlot Student 2.7.2 interface. The 'Project' menu is open, and the 'Save Project As...' option is highlighted. The main window displays a graph titled 'Figure 1' with a blue line labeled 'Table 1 B'. The graph has a vertical axis labeled 'B' ranging from 0 to -20 and a horizontal axis with 10 major ticks. The line starts at (0, 0), remains near 0 until the second tick, then curves downwards, crossing -5 at the fourth tick, and continues to decrease linearly to approximately -20 at the tenth tick.

Horizontal Axis Tick	Vertical Axis Value (B)
0	0
1	-0.5
2	-1
3	-2
4	-5
5	-8
6	-11
7	-14
8	-17
9	-20
10	-23