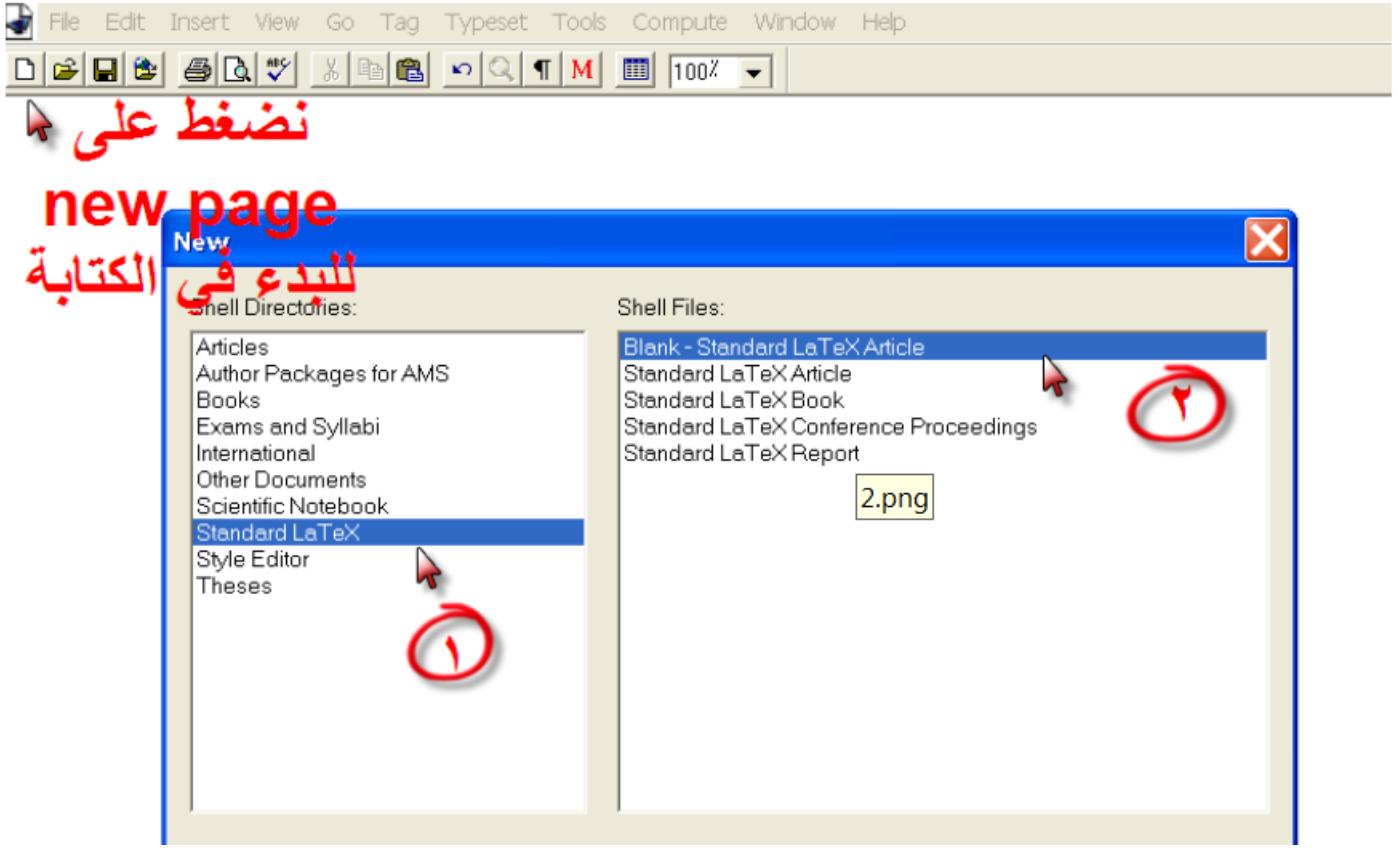
Scientific Workplace 5.5

By : Dr. Rola A. Hijazi


File Edit Insert View Go Tag Typeset Tools Compute Window Help
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New
Shell Directories:
Articles
Author Packages for AMS
Books
Exams and Syllabi
International
Other Documents
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Standard LaTeX Book
Standard LaTeX Conference Proceedings
Standard LaTeX Report
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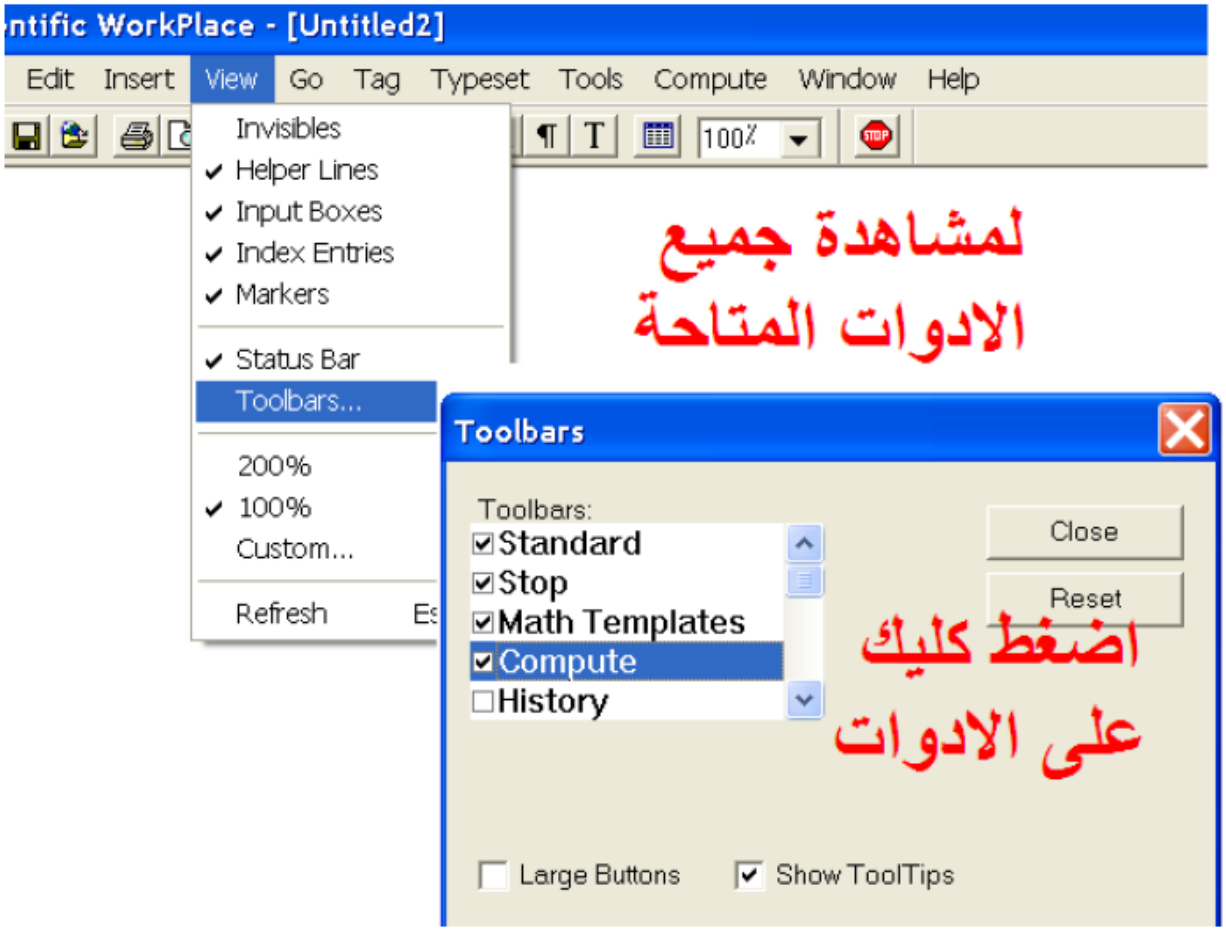
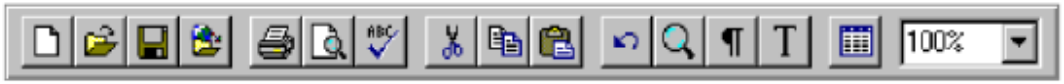
2.png

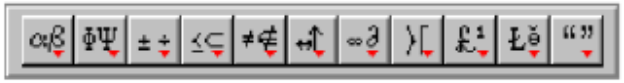

ntific WorkPlace - [Untitled2]
Edit Insert View Go Tag Typeset Tools Compute Window Help
Invisibles
Helper Lines
Input Boxes
Index Entries
Markers
Status Bar
Toolbars...
200%
100%
Custom...
Refresh
لمشاهدة جميع
الادوات المتاحة
Toolbars
Toolbars:
Standard
Stop
Math Templates
Compute
History
Close
Reset
اضغط كليك
على الادوات
Large Buttons
Show ToolTips

The program window contains these toolbars:

Standard toolbar 

Math templets toolbar

Math objects toolbar

Symbols panels toolbar 

Compute toolbar

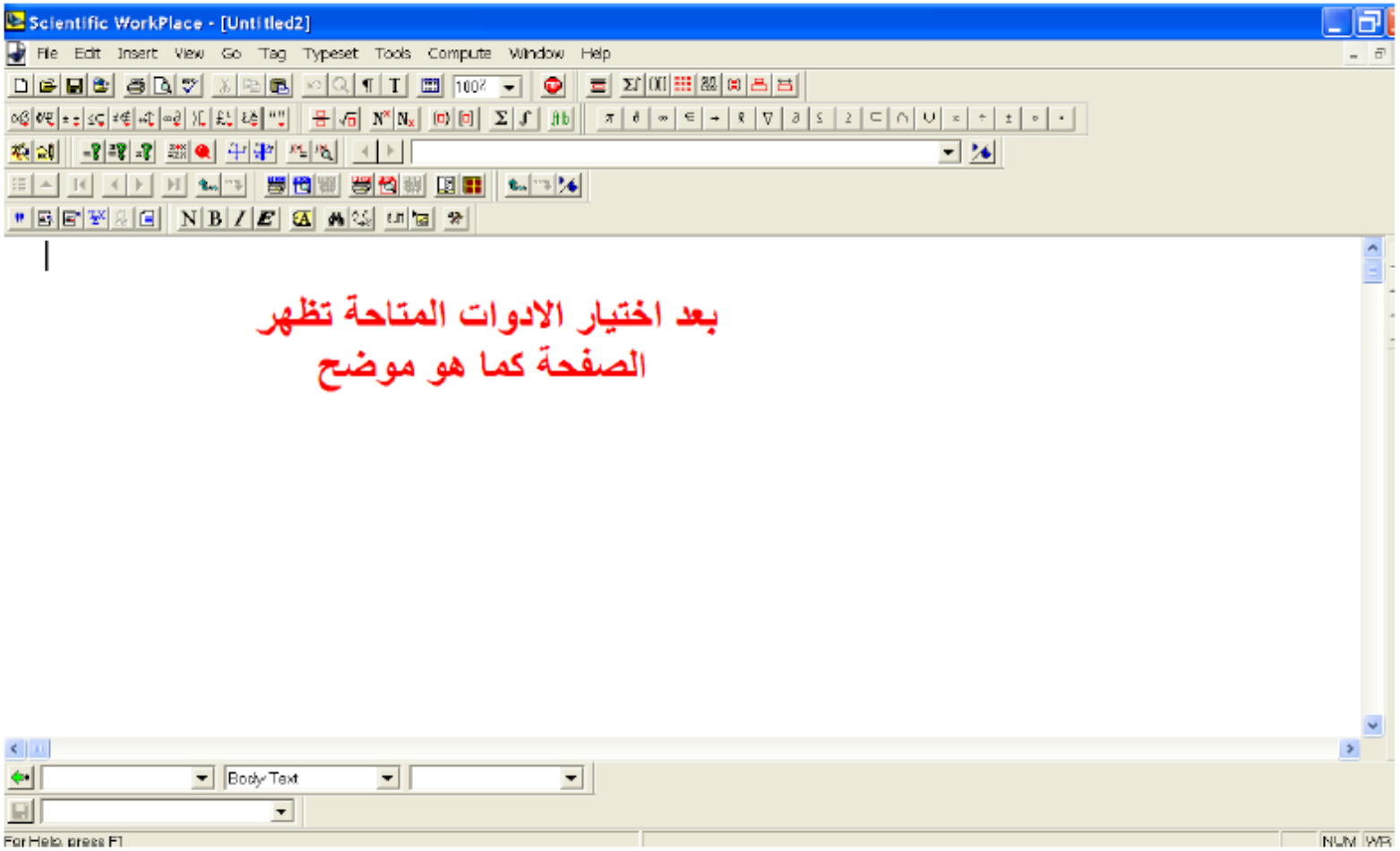
History toolbar

Symbols Chace toolbar

Editing toolbar

Tag toolbar

Fragment toolbar


Scientific WorkPlace - [Untitled2]
File Edit Insert View Go Tag Typeset Tools Compute Window Help
بعد اختيار الادوات المتاحة تظهر
الصفحة كما هو موضح
Body Text
For Help, press F1
NUM

0.3.6 Entering and Editing Mathematics

Because the program assumes you're entering text, you must tell it when you want to enter mathematics. Then, you can enter mathematics easily using the toolbar buttons, Insert menu commands, or keyboard shortcuts.

▶ **To start mathematics**

لتحرير النص اضغط

- On the Standard toolbar, click T or, from the Insert menu, choose Math.

When mathematics is active, the Math/Text toggle appears as M.

لكتابة رموز رياضية اضغط

▶ **To return to text**

- On the Standard toolbar, click M or, from the Insert menu, choose Text.

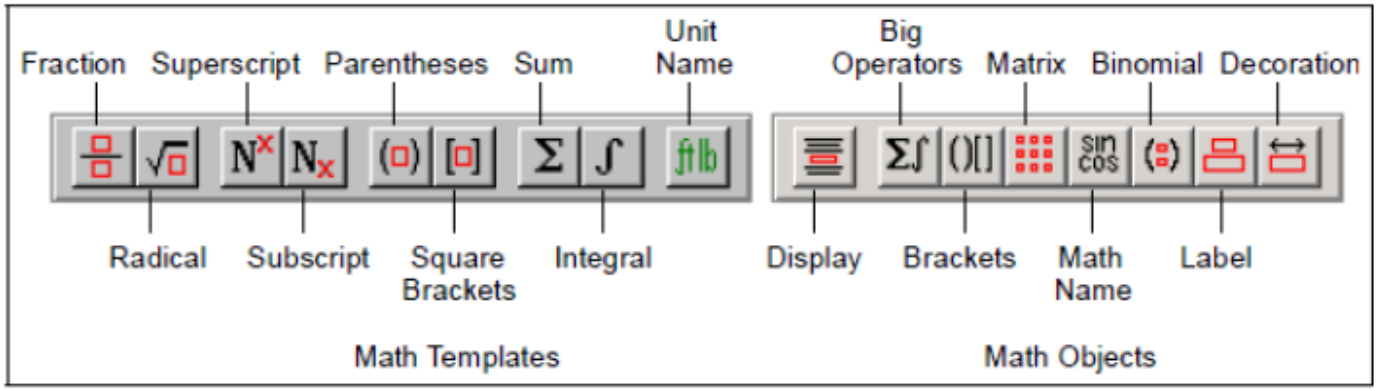
When text is active, the Math/Text toggle appears as T.

or click ctrl+m

13

Symbol Cache toolbar

Mathematical Objects



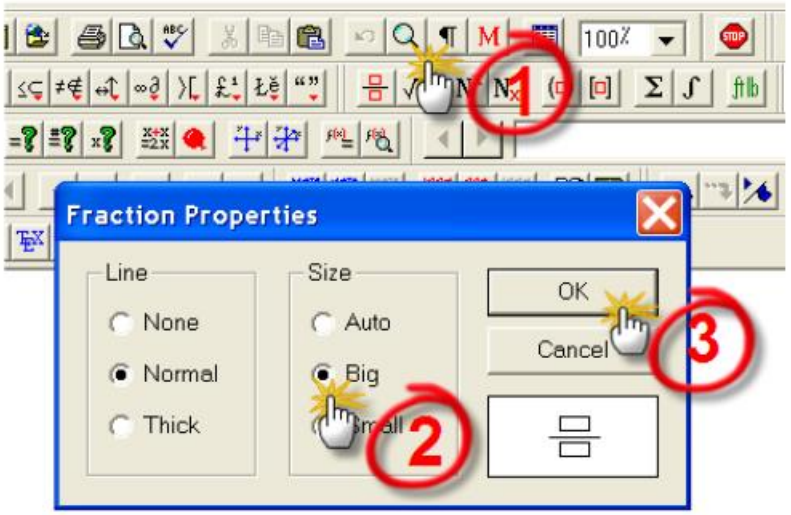
To enter a fraction

1. On 5+++.png h Templates toolbar, click or, from the Insert menu, choose Fraction or press Ctrl+f .

لكتابة الكسر

On the screen, you see , and the Math/Text toggle changes to .

write $\frac{x^2}{x-5}$



$\frac{x^2}{x-5}$

لكتابة الأس

- **To enter a superscript or subscript**

1. Click or, from the Insert menu, choose Math to start mathematics.
2. Type a variable.
3. On the Math Templates toolbar, click or press Ctrl+up arrow to enter a superscript. **or Ctrl+H**

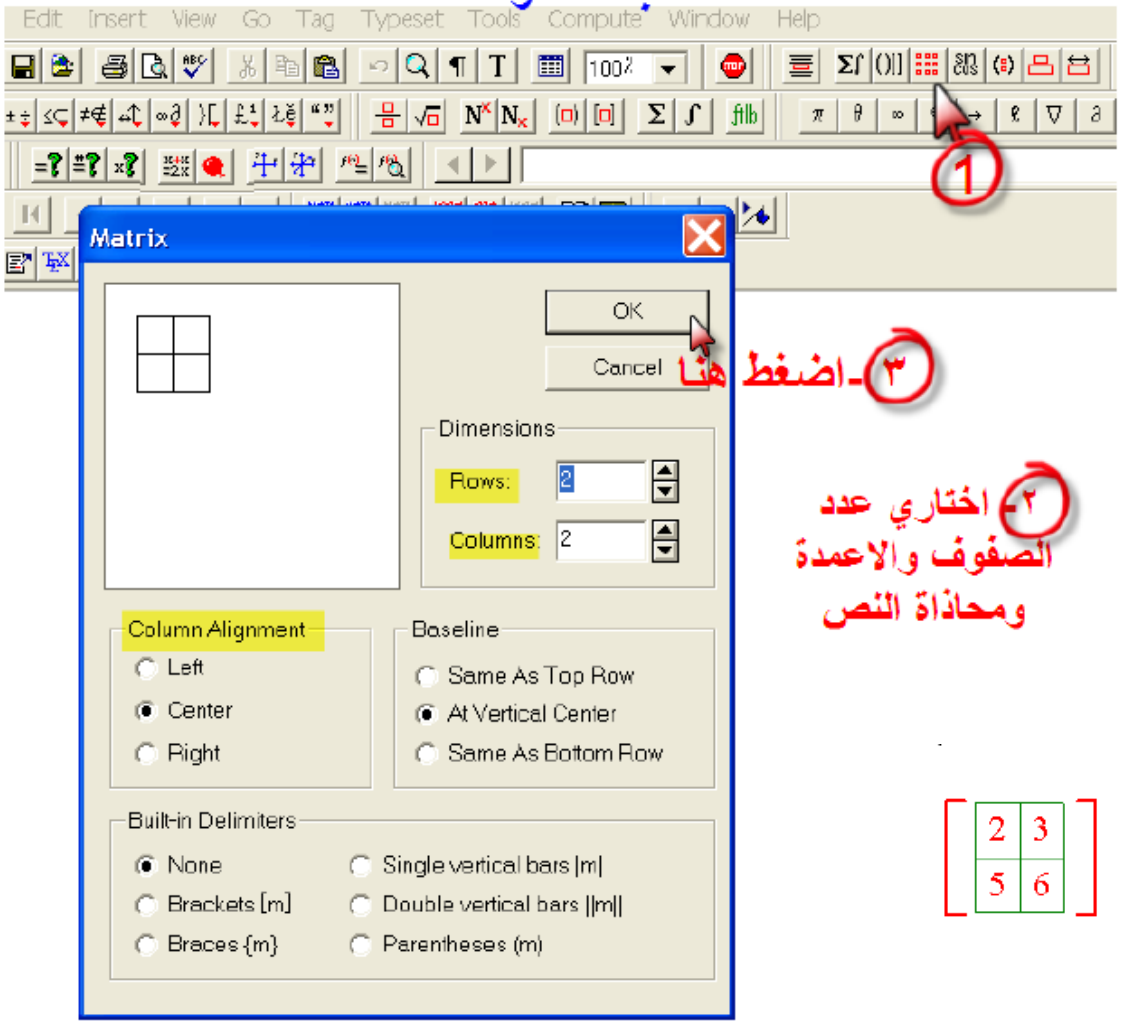
   or

   On the Math Templates toolbar, click or press Ctrl+down arrow to enter a subscript. **ctrl+L**
4. Type the superscript or subscript, and then press the spacebar.

مثال

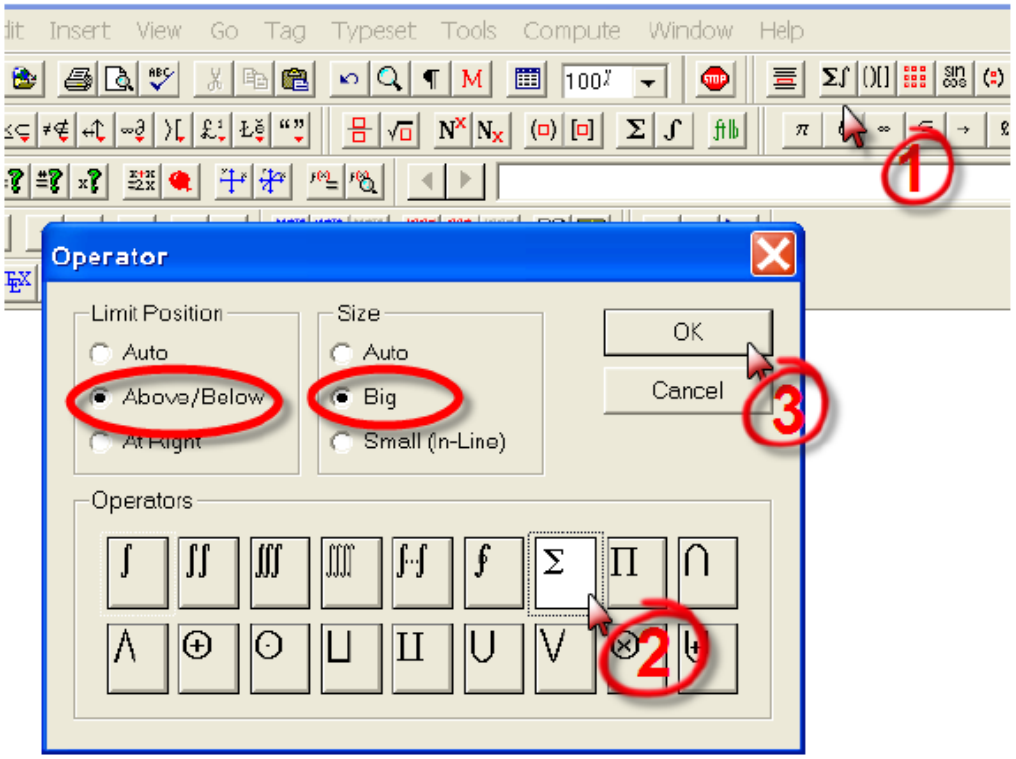
write x_3^2

كتابة مصفوفة



مثال اكتبي المصفوفة التالية

$$\begin{bmatrix} 2 & 3 \\ 5 & 6 \end{bmatrix}$$



To enter operator

مثال اكتبي ما يلي

$$\sum_{i=1}^{n} \frac{x^2+3}{x-f(x)}$$

To Apply an Item Tag

اختاري احد الخيارات

لمسح
item Tag
اضغطي على
او مفتاح
f2

كيفية تنسيق الفصول وأجزائها

Section and subsection

١ـ قم بطباعة ما يلي باستخدام

Calculus

1 Limits and Their Properties

1.1 Evaluating limits

1.1.1 Properties of limits

1.1.2 Finding limits

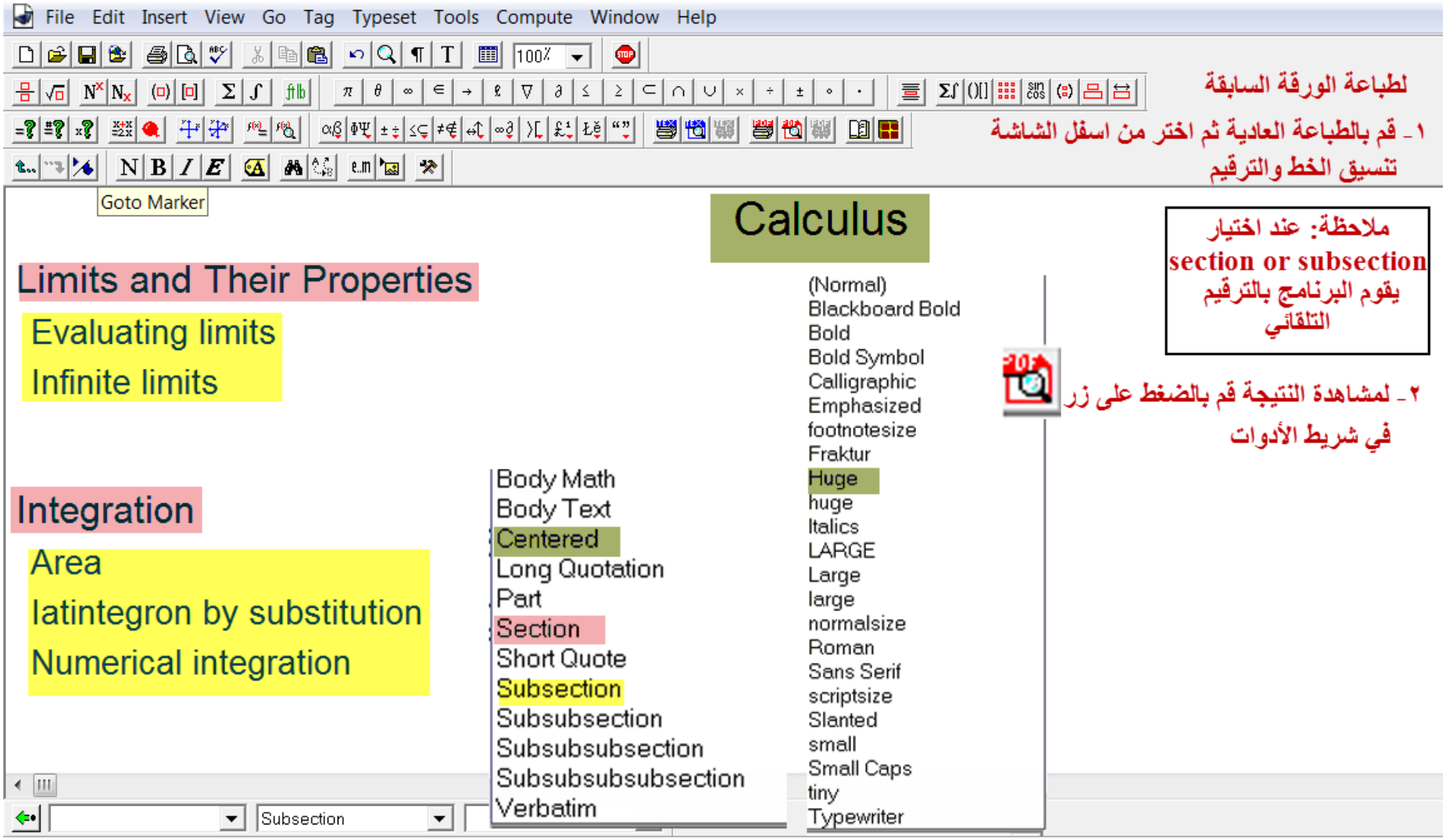
1.2 Infinite limits

2 Integration

2.1 Area

2.2 Iatintegron by substitution

2.3 Numerical integration


File Edit Insert View Go Tag Typeset Tools Compute Window Help
Goto Marker
Calculus
Limits and Their Properties
Evaluating limits
Infinite limits
Integration
Area
Iatintegron by substitution
Numerical integration
Body Math
Body Text
Centered
Long Quotation
Part
Section
Short Quote
Subsection
Subsubsection
Subsubsubsection
Subsubsubsubsection
Verbatim
(Normal)
Blackboard Bold
Bold
Bold Symbol
Calligraphic
Emphasized
footnotesize
Fraktur
Huge
huge
Italics
LARGE
Large
large
normalsize
Roman
Sans Serif
scriptsize
Slanted
small
Small Caps
tiny
Typewriter
Subsection
لطباعة الورقة السابقة
١ـ قم بالطباعة العادية ثم اختر من اسفل الشاشة
تنسيق الخط والترقيم
ملاحظة: عند اختيار
section or subsection
يقوم البرنامج بالترقيم
التلقائي
٢ـ لمشاهدة النتيجة قم بالضغط على زر
في شريط الأدوات

كيفية استخدام الإشارة المرجعية
Marker and cross reference

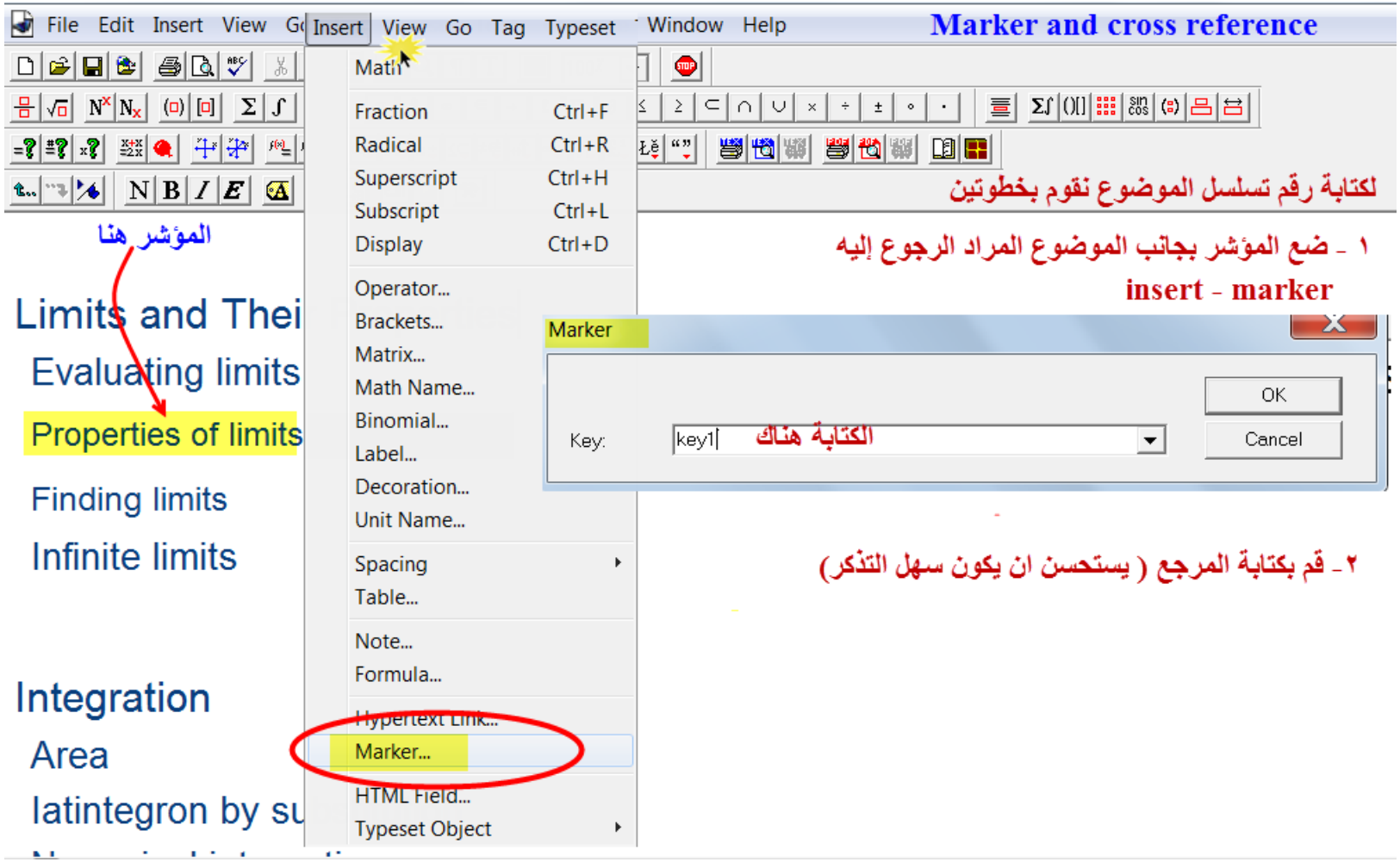
٢ـ قم بطباعة بطباعة ما يلي

1.1.1 Properties of Limits

Theorem 1 *Some basic Limits*

Let b and c be real numbers and let n be a positive integers.

1. $\lim_{x \to c} b = b$
2. $\lim_{x \to c} x = c$
3. $\lim_{x \to c} x^n = c^n$


File Edit Insert View Go
Insert View Go Tag Typeset Window Help
Marker and cross reference
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Fraction Ctrl+F
Radical Ctrl+R
Superscript Ctrl+H
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Display Ctrl+D
Operator...
Brackets...
Matrix...
Math Name...
Binomial...
Label...
Decoration...
Unit Name...
Spacing
Table...
Note...
Formula...
Hypertext Link...
Marker...
HTML Field...
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Limits and Thei
Evaluating limits
Properties of limits
Finding limits
Infinite limits
Integration
Area
Marker
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OK
Cancel
٢ ـ قم بكتابة المرجع (يستحسن ان يكون سهل التذكر)

Limits and Their Properties

Evaluating limits

لن تظهر في الطباعة

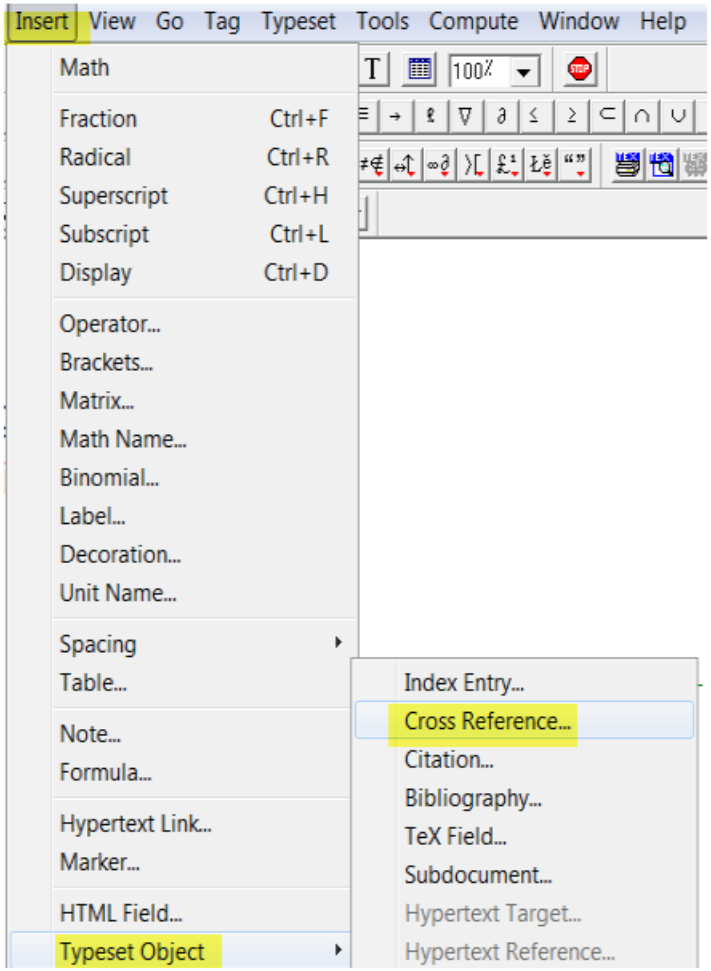
Properties of limits marker: key1

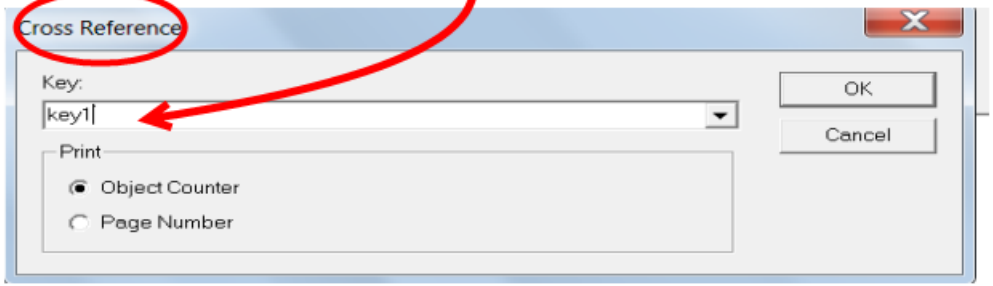
Finding limits

Infinite limits

الخطوة الثانية
استدعاء الإشارة المرجعية

قم بالإستدعاء وذلك بكتابة نفس الإسم السابق كما موضح





ref: key1 Properties of Limits

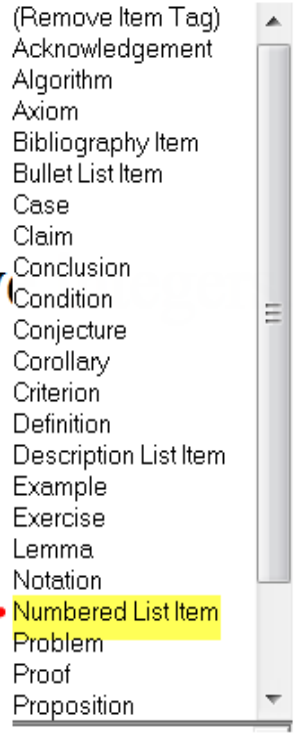
لن تظهر بالطباعة
سيظهر رقم السكشن

Theorem *Some basic Limits*

Let b and c be real numbers and let n be a positiv

1. $\lim_{x \to c} b = b$
2. $\lim_{x \to c} x = c$
3. $\lim_{x \to c} x^n = c^n$

لطباعة الأرقام التسلسلية



Example 2 قم بطباعة ما يلي

Discuss the continuity of the following function

$$h(x) = \begin{cases} x+1, & x \leq 0 \\ x^2+1, & x > 0 \end{cases} \tag{1.1}$$

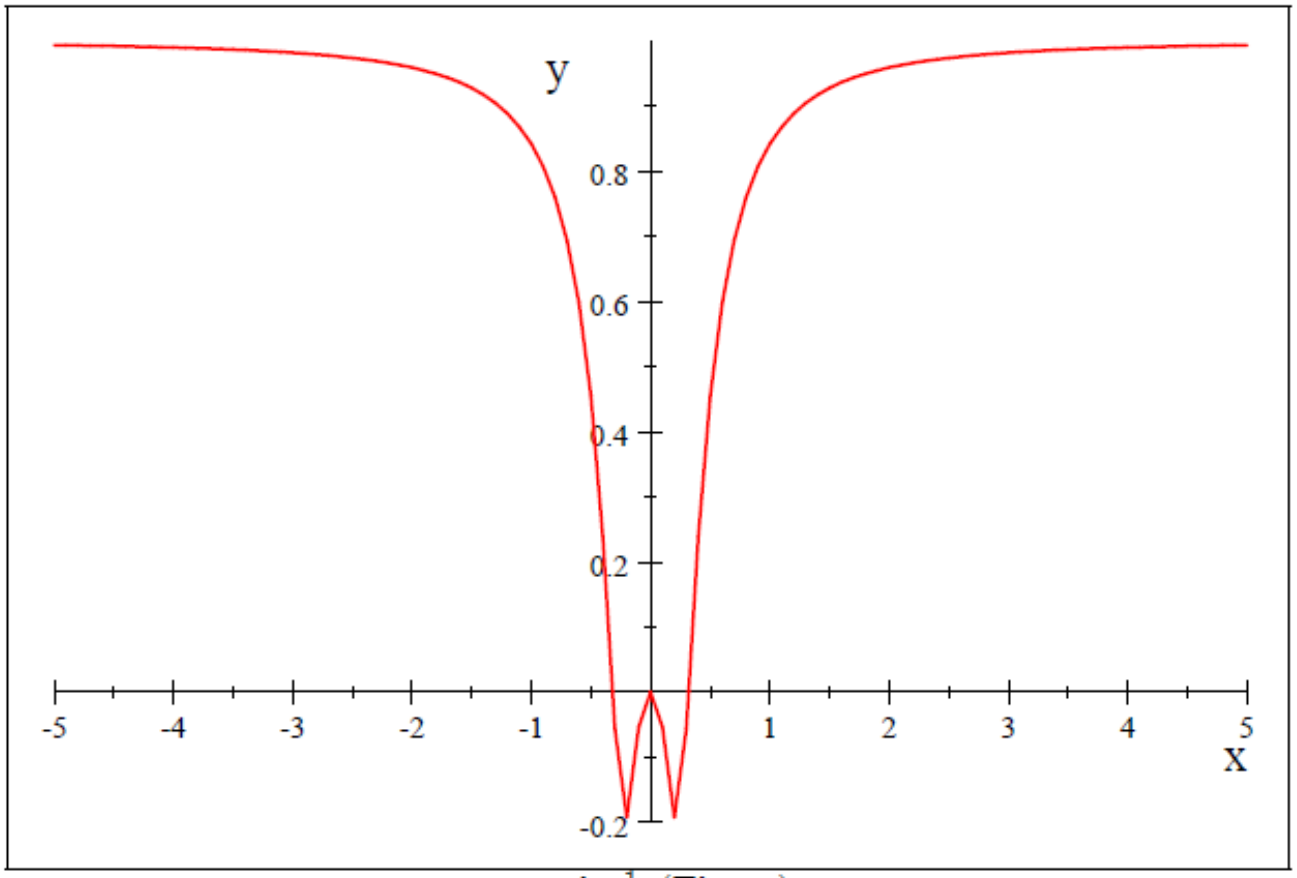
Use (1.1) to find the intervals on which the function is continuous.

Example 3

Describe the intervals on which the function is continuous.

$$f(x) = x \sin \frac{1}{x} \tag{1.2}$$

Use (1.2) to find the intervals on which the function is continuous.



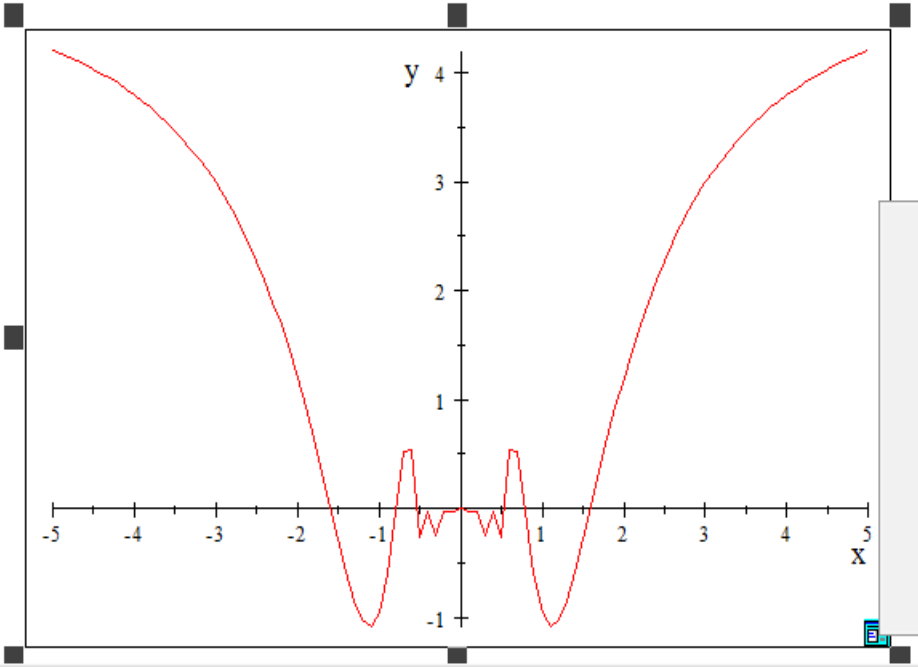
$y = \sin \frac{1}{x}$ (Fig1.1)

استخدام خاصية الرسم

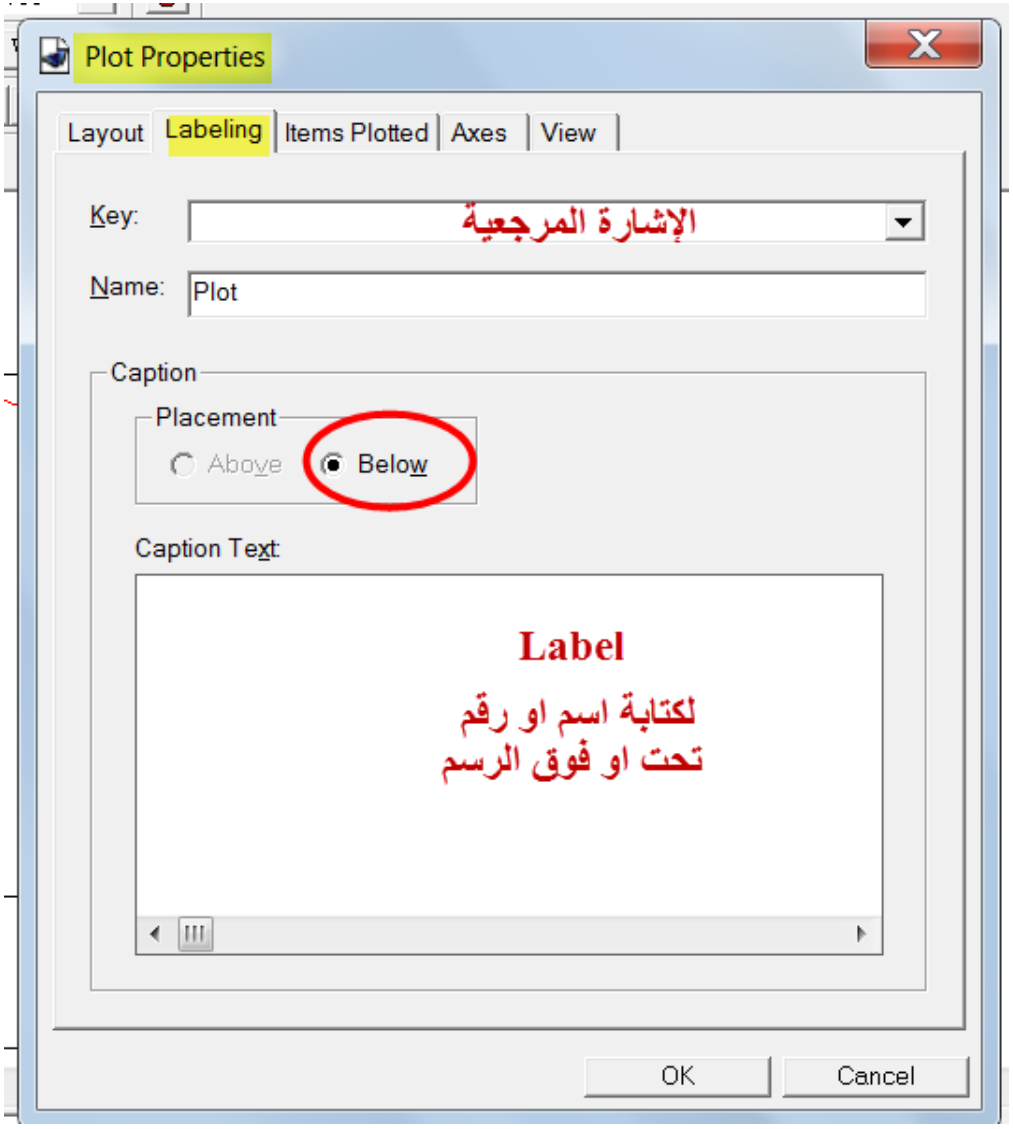
اضغط

قم بكتابة المعادلة

$$y = x \sin\frac{5}{x}$$



اضغط لتنسيق الصورة


Plot Properties
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Labeling
Items Plotted
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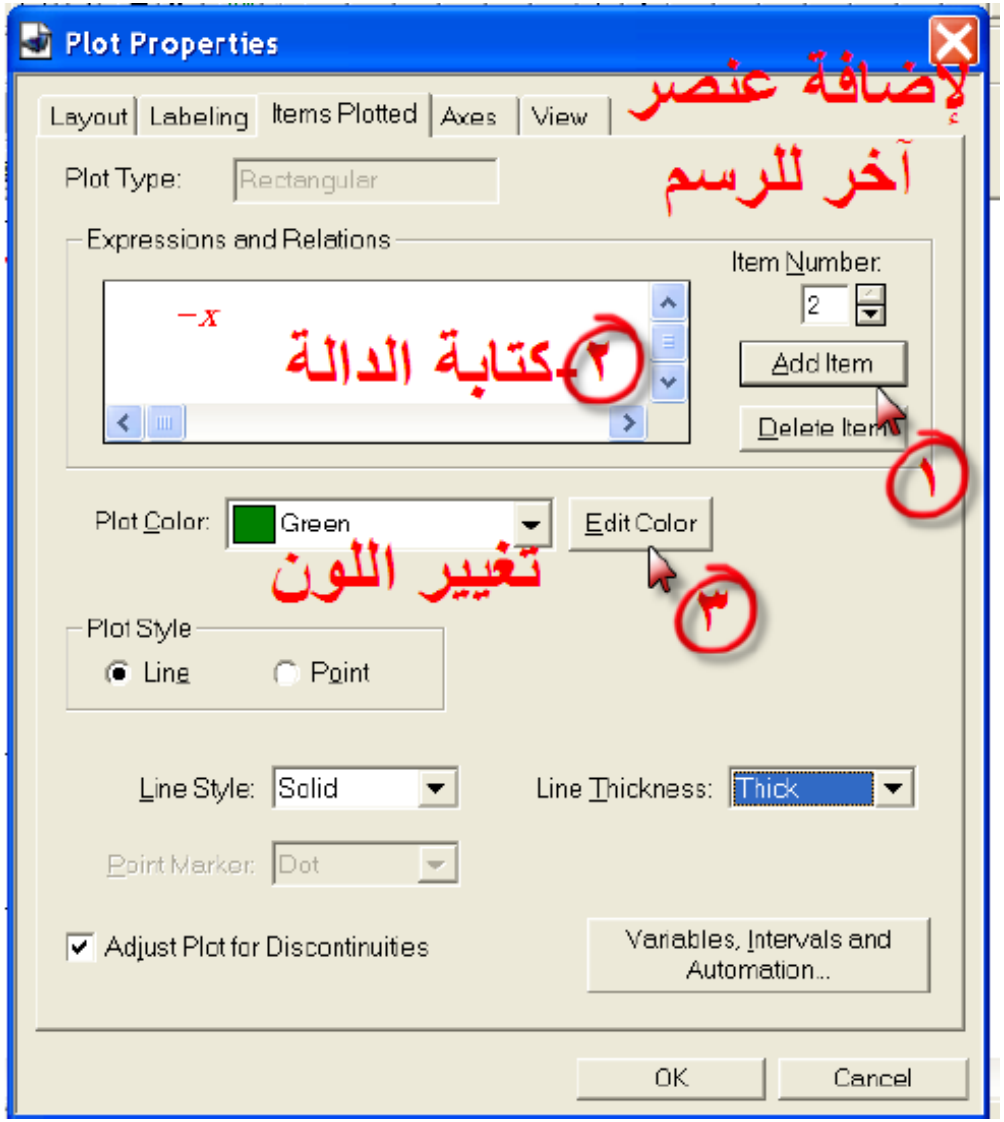
OK
Cancel


Plot Properties
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Plot Type:
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Delete Item
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Thick
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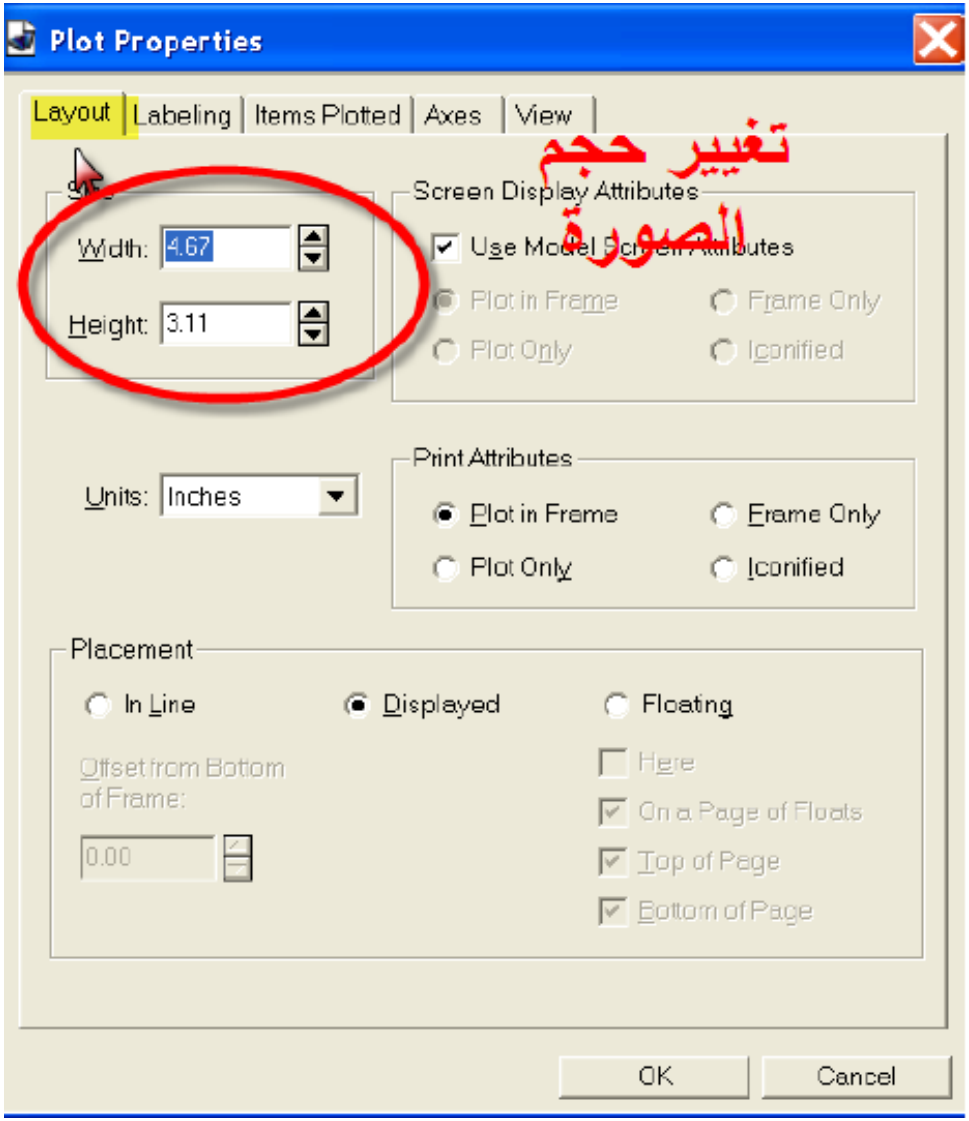
Adjust Plot for Discontinuities
Variables, Intervals and Automation...
OK
Cancel


Plot Properties
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Items Plotted
Axes
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تغيير حجم الصورة
Width: 4.67
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Screen Display Attributes
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Plot in Frame
Frame Only
Plot Only
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Units: Inches
Print Attributes
Plot in Frame
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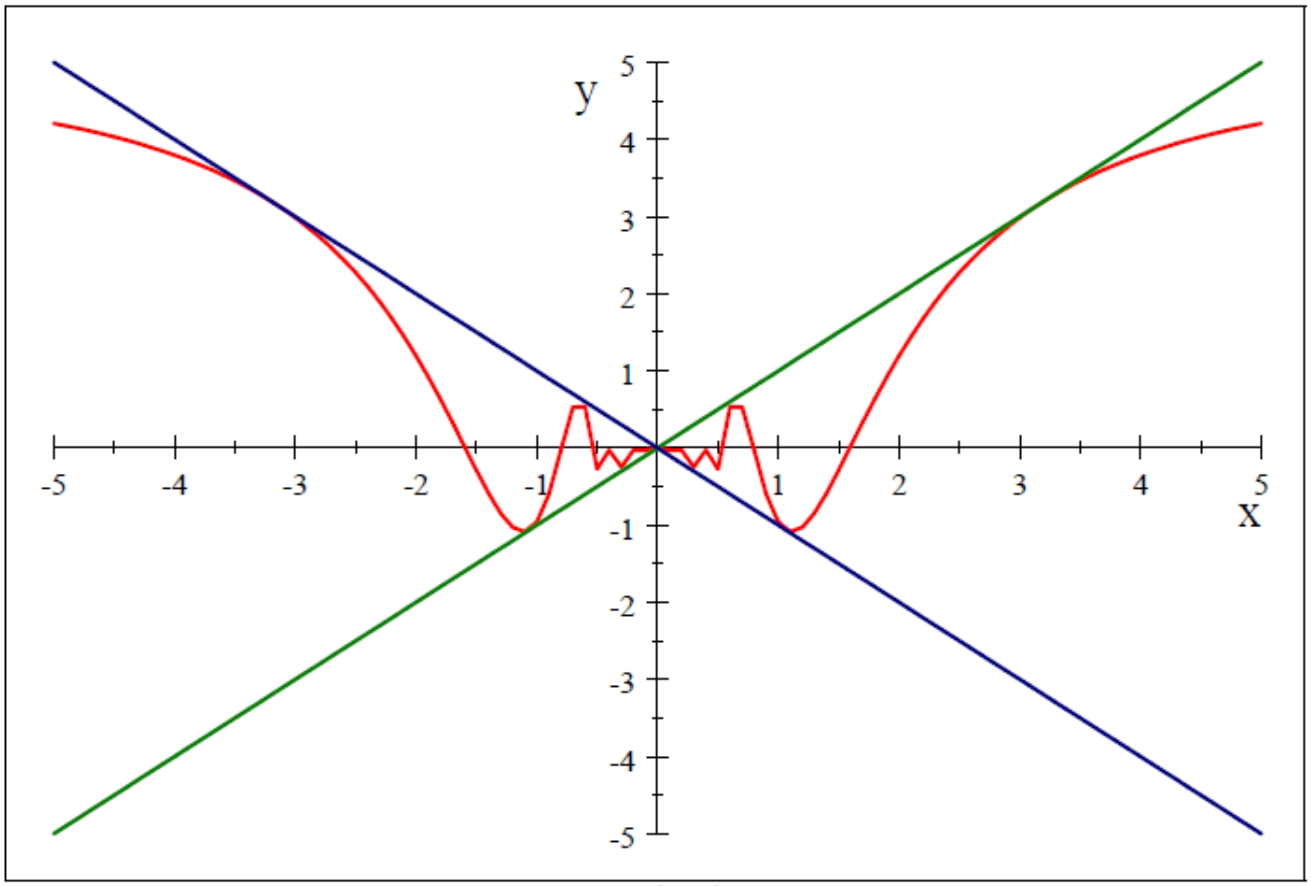

Fig.(1.1)

انتهى بحمد الله الجزء الأول