



كلية الفنون التطبيقية
جامعة بنها

قسم تكنولوجيا الملابس والموضة

**خطوات رسم باترون
أمام بنطلون
باستخدام برنامج
Gerber Accumark**

مادة اعداد نماذج بالحاسب الالى
الفرقة الثالثة
العام الجامعى 2019-2020

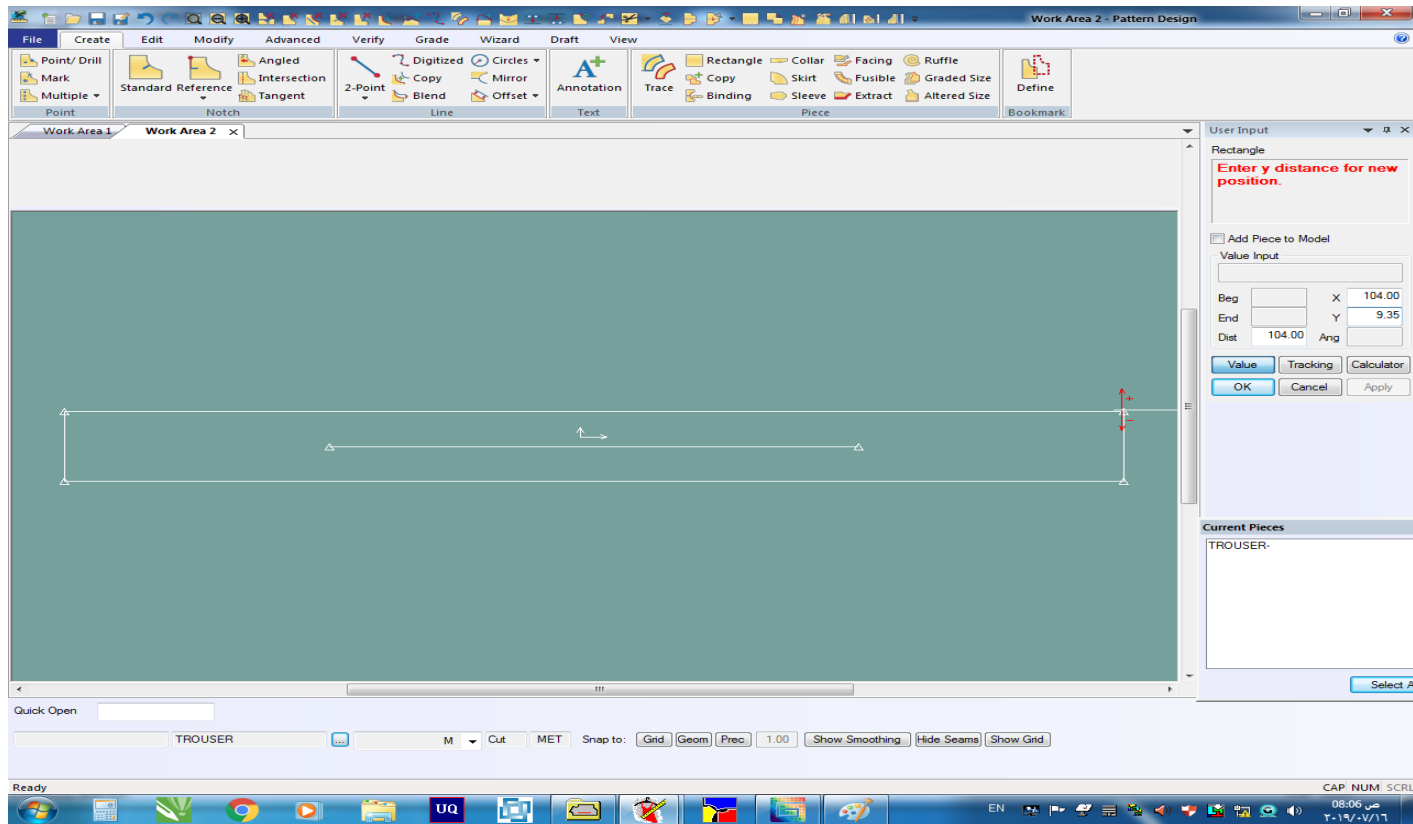
خطوات رسم باترون أمام بنطلون باستخدام برنامج Gerber Accumark

- لرسم باترون بنطلون طبقا لكتاب Matric Pattern Cutting نحتاج للمقاسات التالية
- دوران الوسط Waist 70 سم
- دوران الأرداف Hips 94 سم
- الطول من الوسط للأرداف 20.6 Waist to hip سم
- Body rise 28 سم
- الطول من الوسط للأرض 104 Waist to floor سم
- فتحة الرجل 22 Trouser bottom width سم

لرسم جزء الأمام على البرنامج

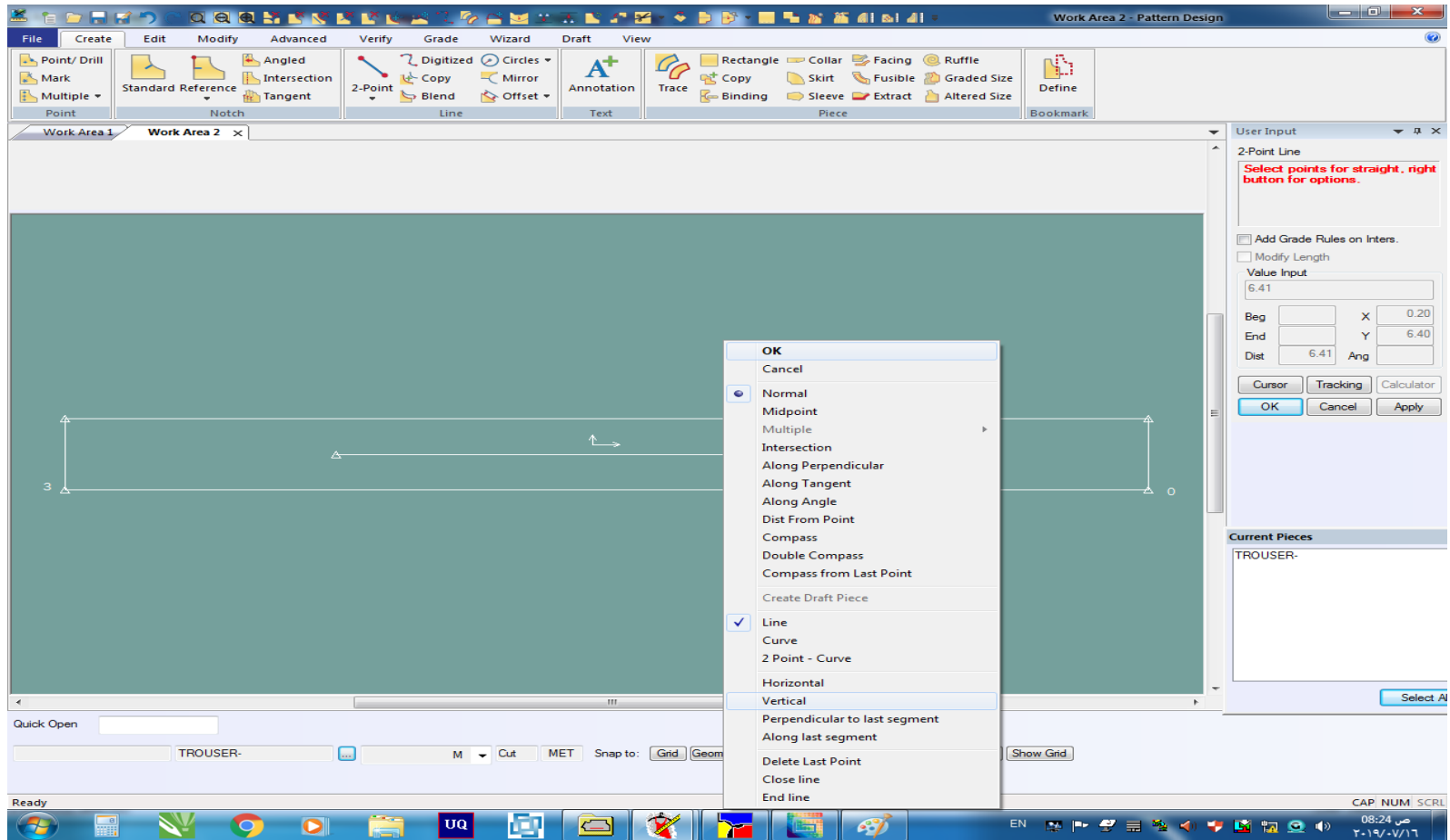
1- رسم مستطيل طوله طول البنطلون (3-0) من الوسط للأرض (104 سم) وعرضه 1/12 من مقدار دوران الاردا ف مضاف اليه 1.5 سم (9.35 سم)

create → Piece → Rectangle



2- رسم خط مستقيم (5-1) عمودي علي الخط (3-0) و يبعد من نقطة (0)
مقدار طول Body rise (28 سم)

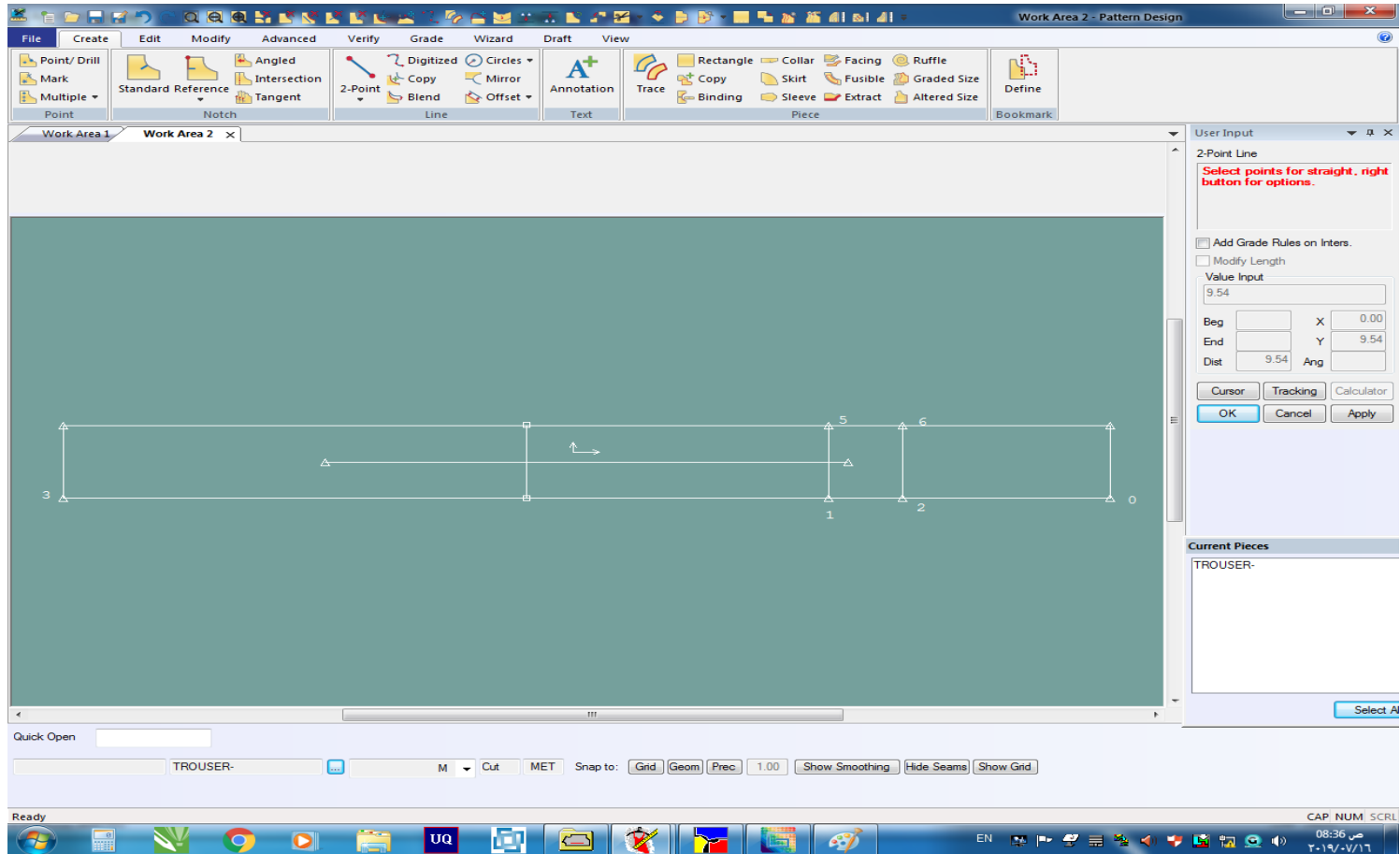
Create → Line → 2-Point Line Right click → vertical



خط مستقيم (5-1) عمودي علي الخط (3-0)

The screenshot displays a CAD application window titled "Work Area 2 - Pattern Design". The main workspace shows a 2D drawing on a green background. A horizontal line segment is drawn with endpoints labeled 3 and 0. A vertical line segment is drawn perpendicular to it, with endpoints labeled 1 and 5. A small square symbol at the intersection indicates the lines are perpendicular. The software interface includes a menu bar (File, Create, Edit, Modify, Advanced, Verify, Grade, Wizard, Draft, View), a toolbar with various tools like Point/Drill, Mark, Multiple, Angled, Intersection, Tangent, 2-Point, Digitized, Circles, Copy, Mirror, Blend, Offset, Annotation, Trace, Rectangle, Collar, Facing, Ruffle, Copy, Skirt, Fusible, Graded Size, Binding, Sleeve, Extract, Altered Size, Define, and a right-hand panel with a "User Input" dialog box for the "2-Point Line" command. The dialog box shows the distance between the two points as 104.00. The bottom status bar shows "TROUSER-" and various settings like "M", "Cut", "MET", "Snap to: Grid, Geom, Prec, 1.00", "Show Smoothing", "Hide Seams", and "Show Grid".

3- رسم خط مستقيم (2-6) عمودي علي الخط (0-3) و يبعد من نقطة (0) مقدار الطول من الوسط للأرداف (20.6 سم)
Create → Line → 2-Point Line



4- رسم خط مستقيم (6-8) عمودي علي الخط (3-0) و طوله ربع محيط الارداف + 0.5 سم Create → Line → 2-Point Line

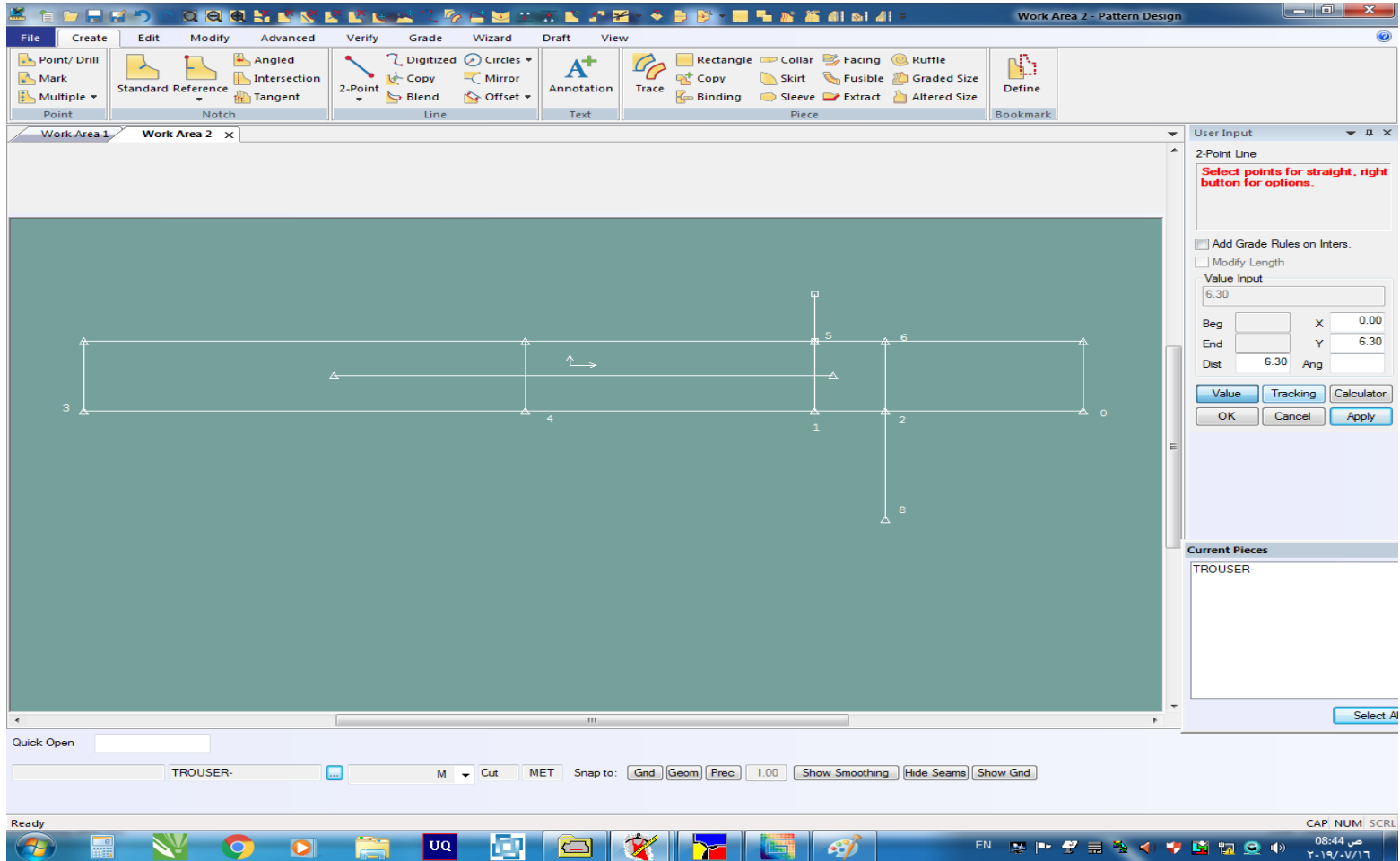
The screenshot shows the 'Work Area 2 - Pattern Design' window. The main workspace contains a technical drawing of a pair of trousers. A horizontal line is labeled '3' and a vertical line is labeled '4'. A '2-Point Line' dialog box is open on the right, with 'Value Input' set to 24.00. The software interface includes a menu bar, a toolbar, and a status bar at the bottom.

Quick Open: TROUSER-

M Cut MET Snap to: Grid Geom Prec 1.00 Show Smoothing Hide Seams Show Grid

Ready CAP NUM SCRL 08:41 ص ٢٠١٤/٠٧/١٦

5- رسم خط مستقيم (5-9) عمودي علي الخط (0-3) و طوله
 16|1 محيط الارداف + 0.5 سم
 Create → Line → 2-Point Line



6- رسم خط مستقيم (7-10) طوله 1 سم Create → Line → 2-Point Line

The screenshot displays the Pattern Design software interface. The main workspace shows a pattern diagram with several points labeled 0 through 9. A vertical line segment is being created between points 1 and 2. The '2-Point Line' tool is active, and the 'User Input' dialog box is open on the right side of the screen. The dialog box contains the following information:

- 2-Point Line**
- Enter distance from beginning of line.**
- Add Grade Rules on Inters.
- Modify Length
- Value Input**
- Beg: 1 X: []
- End: 7.04 Y: []
- Dist: 9.35 Ang: []
- Buttons: Value, Tracking, Calculator, OK, Cancel, Apply

At the bottom of the software window, the 'Current Pieces' list shows 'TROUSER-'. The status bar at the very bottom indicates 'Ready' and 'CAP_NUM SCRL'.

7- توصيل النقطة (6) بالنقطة (10) Create → Line → 2-Point Line

The screenshot displays the '2-Point Line' dialog box in a CAD application. The main workspace shows a pattern diagram with points labeled 0 through 9. A line is being drawn from point 6 to point 10. The dialog box on the right contains the following settings:

2-Point Line
 Select first point for line, right button for options.

Add Grade Rules on Inters.
 Modify Length

Value Input
 20.57

Beg	83.46	X	-20.54
End	20.54	Y	1.00
Dist	20.57	Ang	

Buttons: **Cursor** **Tracking** **Calculator**
OK **Cancel** **Apply**

Current Pieces
 TROUSER-

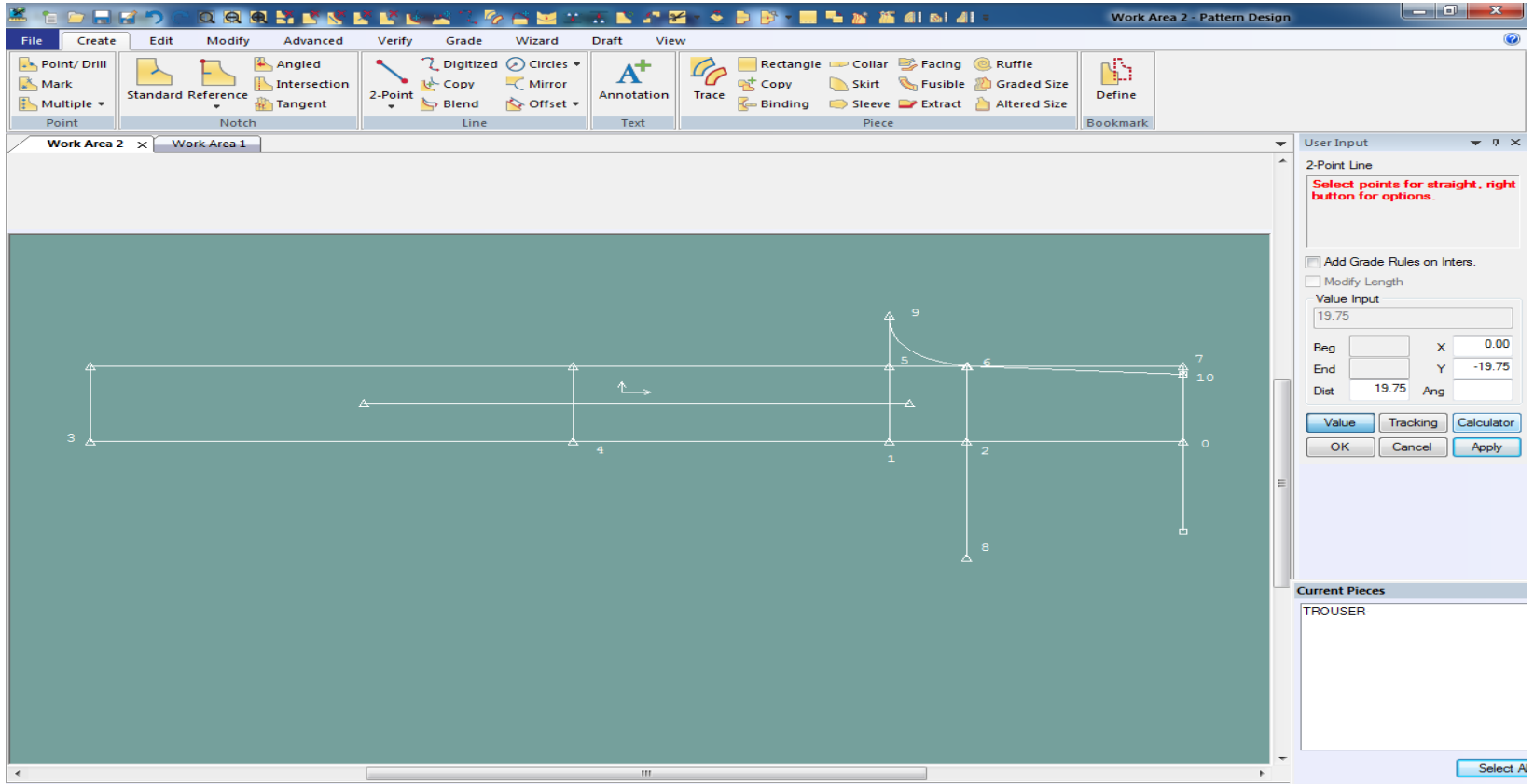
Quick Open: TROUSER- M Cut MET Snap to: Grid Geom Prec 1.00 Show Smoothing Hide Seams Show Grid

Ready CAP NUM SCRL 08:52 ٢٠١٩/٠٧/١٦

8- توصيل النقطة (6) بالنقطة (9) بواسطة خط منحنى Create → Line → 2-Point curve

The screenshot displays the 'Work Area 2 - Pattern Design' software interface. The main workspace shows a 2D pattern layout for a pair of trousers, with various pieces and lines. A 2-point curve is being created between points 5 and 6. The software interface includes a menu bar, a toolbar with various tools, and a 'User Input' panel on the right. The 'User Input' panel shows the '2-Point Curve' tool settings, including 'Place point(s) at new location.', 'Add Grade Rules on Inters.', 'Modify Length', and 'Value input' fields. The 'Current Pieces' panel shows 'TROUSER-'. The status bar at the bottom indicates 'Ready' and 'CAP NUM SCRL'.

9- رسم خط مستقيم (10-11) على امتداد الخط (7-10) و طوله
 ربع محيط الوسط + 2.25 سم
 Create → Line → 2-Point Line



Quick Open

TROUSER-

M

Cut

MET

Snap to:

Grid

Geom

Prec

1.00

Show Smoothing

Hide Seams

Show Grid

Ready

CAP NUM SCRL

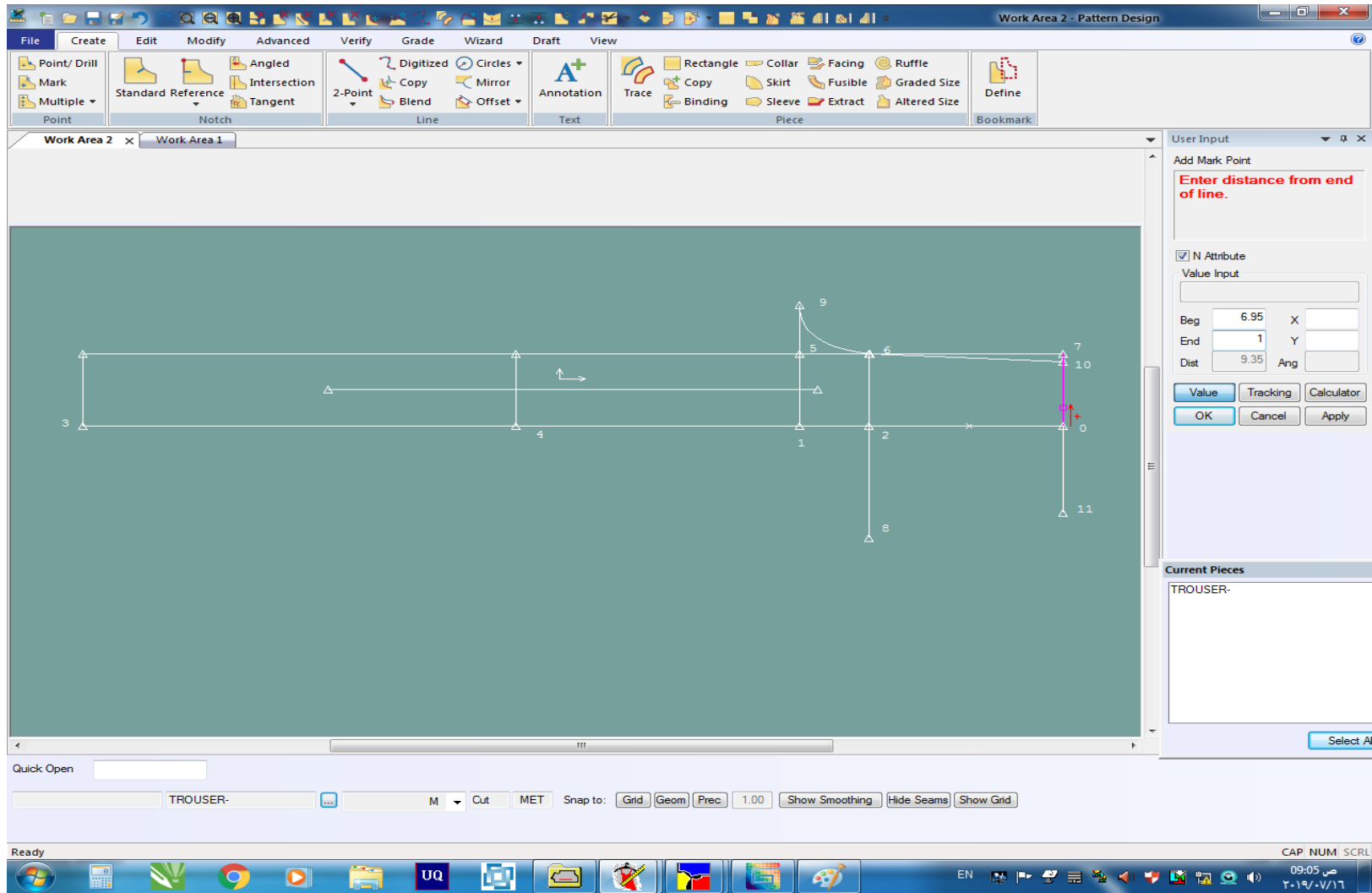
09:02
٢٠١٩/٧/١٦

10 - رسم بنسه على الخط (10-11) عند النقطة (0) طولها 10 سم و عرضها 2 سم

The screenshot shows a CAD software interface for pattern design. The main workspace displays a horizontal line with several vertical lines extending from it, labeled with numbers 0 through 11. A red arrow points to point 0 on the horizontal line. The software interface includes a menu bar at the top with options like File, Create, Edit, Modify, Advanced, Verify, Grade, Wizard, Draft, and View. Below the menu bar are various toolbars for creating and modifying shapes. On the right side, there is a 'User Input' panel with a text box containing the instruction 'Enter distance from beginning of line.' and a 'Value Input' section with fields for 'Beg' (10), 'End' (98.39), and 'Dist' (104.00). Below this panel is a 'Current Pieces' list containing 'TROUSER-'. At the bottom of the window, there is a status bar with the text 'Ready' and a taskbar with various application icons.

11- خطوات رسم البنسة

Create → Line → 2-Point Line



12- رسم الخط (12-3) طولة نصف دوران فتحة الرجل – 0.5 سم
 رسم الخط (13-4) طولة طول الخط (12-3) + 1.5 سم
 Create → Line → 2-Point Line

The image shows a CAD software interface for pattern design. The main workspace displays a technical drawing of a pair of trousers with various points labeled 1 through 13. A '2-Point Line' dialog box is open on the right, showing input fields for 'Value Input' (11.80), 'Beg' (0.00), 'End' (11.80), and 'Dist' (11.80). The software title bar reads 'Work Area 2 - Pattern Design'. The bottom status bar shows 'Ready' and 'CAP NUM SCRL'.

13- ايمال النقطة (9) بالنقطة (15) بواسطة خط منحنى Create → Line → 2-Point curve

The screenshot displays the '2-Point Curve' tool interface in a CAD application. The main workspace shows a pattern diagram with points labeled 0 through 15. A curve is being drawn between point 15 and point 9. The right-hand panel contains the following fields and controls:

- User Input:** 2-Point Curve
- Place point(s) at new location:** (Red text)
- Add Grade Rules on Inters.
- Modify Length
- Value Input:** 30.51
- Begin Point (Beg):** X: 12.17, Y: 18.34
- End Point (End):** X: 3.32, Y: -1.26
- Distance (Dist):** 3.55
- Angle (Ang):** (Empty)
- Buttons:** Cursor, Tracking, Calculator, OK, Cancel, Apply
- Current Pieces:** TROUSER-
- Select** button at the bottom right.

The bottom status bar shows 'Ready' and 'CAP NUM SCRL'.

14- ايمال النقطة (14) بالنقطة (15) بواسطة خط منحنى Create → Line → 2-Point curve

The screenshot shows the '2-Point Line' dialog box in a CAD application. The dialog includes the following fields and options:

- Value Input:** 46.02
- Beg:** 10.50 (X: -46.00)
- End:** 0.00 (Y: -1.30)
- Dist:** 46.02 (Ang:)
- Options:**
 - Add Grade Rules on Inters.
 - Modify Length
- Buttons:** Cursor, Tracking, Calculator, OK, Cancel, Apply

The main workspace shows a pattern piece with points 0 through 15. A 2-Point curve is being drawn between points 14 and 15. The 'Current Pieces' list on the right shows 'TROUSER-'. The bottom status bar indicates 'Ready' and 'CAP NUM SCRL'.

15- ايمال النقطة (11) بالنقطة (8) بواسطة خط منحنى Create → Line → 2-Point curve

The screenshot displays a software interface for pattern design, specifically the '2-Point Curve' tool. The main workspace shows a pattern with several points labeled 1 through 15. A curve is being drawn between point 8 and point 11. The 'User Input' panel on the right provides the following settings:

- 2-Point Curve**
- Place point(s) at new location.**
- Add Grade Rules on Inters.
- Modify Length
- Value Input: 21.08
- Beg: 7.44 X 3.30
- End: 13.64 Y -0.70
- Dist: 3.37 Ang
- Buttons: Cursor, Tracking, Calculator, OK, Cancel, Apply

The 'Current Pieces' panel at the bottom right shows 'TROUSER-'. The software title bar indicates 'Work Area 2 - Pattern Design'. The Windows taskbar at the bottom shows the system tray with the date '09:23 ص ٢٠١٩/٠٧/١٦' and the text 'CAP NUM SCRU'.

16- ايمال النقطة (8) بالنقطة (13) بواسطة خط منحنى Create → Line → 2-Point curve

The screenshot displays a CAD software interface for pattern design. The main workspace shows a pattern with several points labeled 1 through 15. A 2-Point Curve tool is being used to create a curve between point 13 and point 8. The software interface includes a menu bar (File, Create, Edit, Modify, Advanced, Verify, Grade, Wizard, Draft, View), a toolbar with various tools (Point/Drill, Mark, Multiple, Standard Reference, Angled, Intersection, Tangent, 2-Point, Copy, Blend, Offset, Circles, Mirror, Annotation, Trace, Rectangle, Copy, Binding, Collar, Skirt, Sleeve, Facing, Fusible, Extract, Ruffle, Graded Size, Altered Size, Define), and a User Input panel on the right. The User Input panel shows the 2-Point Curve tool settings, including a Value Input field set to 37.52, and a table of coordinates for the start and end points.

Property	Value	Property	Value
Begin	20.54	X	-1.75
End	16.98	Y	0.53
Dist	-1.83	Ang	

The current pieces list shows "TROUSER-". The status bar at the bottom indicates "Ready" and "CAP NUM SCRL". The system tray shows the time as 09:23 on 2-19-11.

17- ايمال النقطة (13) بالنقطة (12) بواسطة خط مستقيم Create → Line → 2-Point line

The screenshot displays the 'Work Area 2 - Pattern Design' window. The main workspace shows a pattern with points labeled 0 through 15. A red box highlights the text 'attrs: N' in the bottom-left corner of the workspace. The right-hand panel shows the 'User Input' dialog for the '2-Point Line' tool. The dialog includes the following fields and values:

- Value Input:** 46.02
- Beg:** 10.50 (X), -46.00 (Y)
- End:** 0.00 (X), 1.30 (Y)
- Dist:** 46.02
- Ang:** (empty)

The bottom status bar shows 'Ready' and 'TROUSER-'. The system tray at the bottom right shows the date and time: 09:24 ص ٢٠١٩/٧/١٦.

مع أطيب
الأمنيات لطلابنا

يا معلمين وزملاء

