



Autocad

Lecture ٤

Drawing commands:

Xline

Rectangle



Construction Line

Construction lines, line can extend to infinite such as xline can be used to create construction and reference line and for trimming

Command Line	xl 
Menu Bar	Draw  Construction lines
Draw Bar	

When select this command the following message will appear in the command line:

Specify a point or [Hor/ Ver /Ang / Bisect / Offset]

The Xline command provides several options that allow creating specific types of construction lines.

Options:

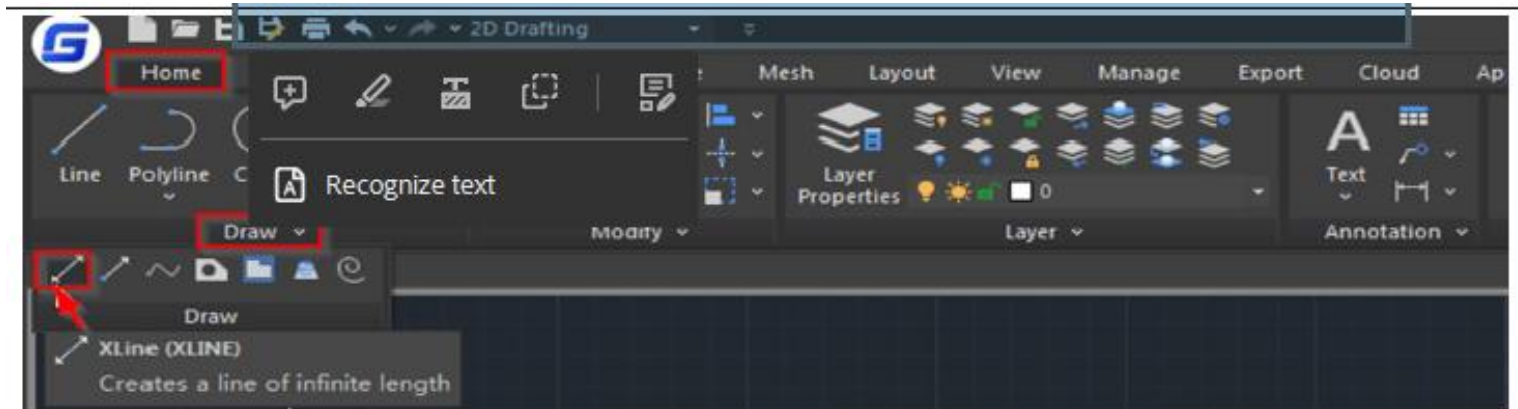
Hor: the horizontal option forces all the lines to be exactly horizontal.

Ver: the vertical option forces all the lines to be exactly vertical.

Ang: the angle option use to create construction lines at angles other than 0 or 90 degrees.

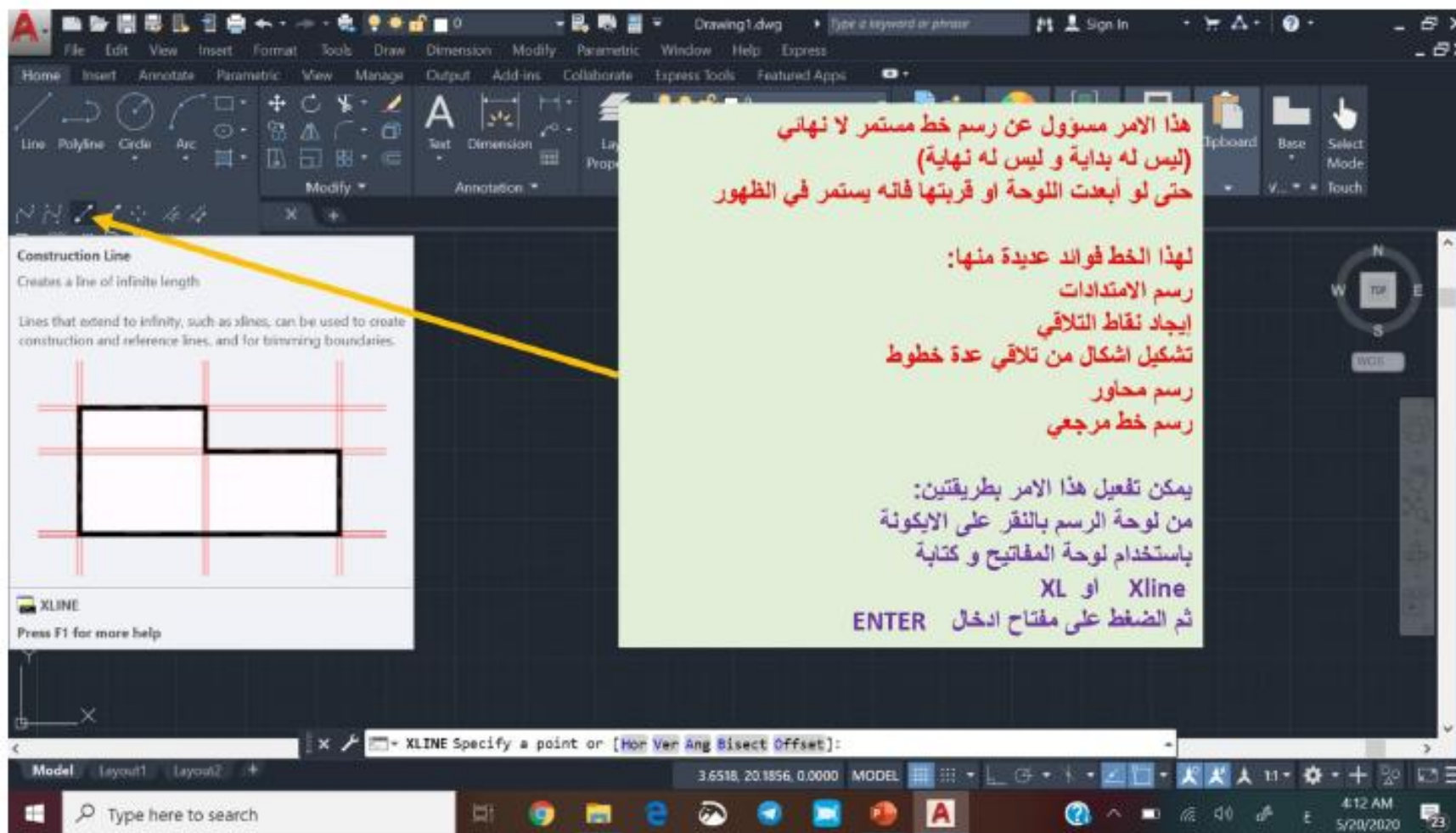
Bisect: this option draws the xline at an angle between two selected points.

Offset: offsetting a line means creating the line at a specific distance from another line.



* Enter "XL" or "XLINE" in the command line, and press Enter key,







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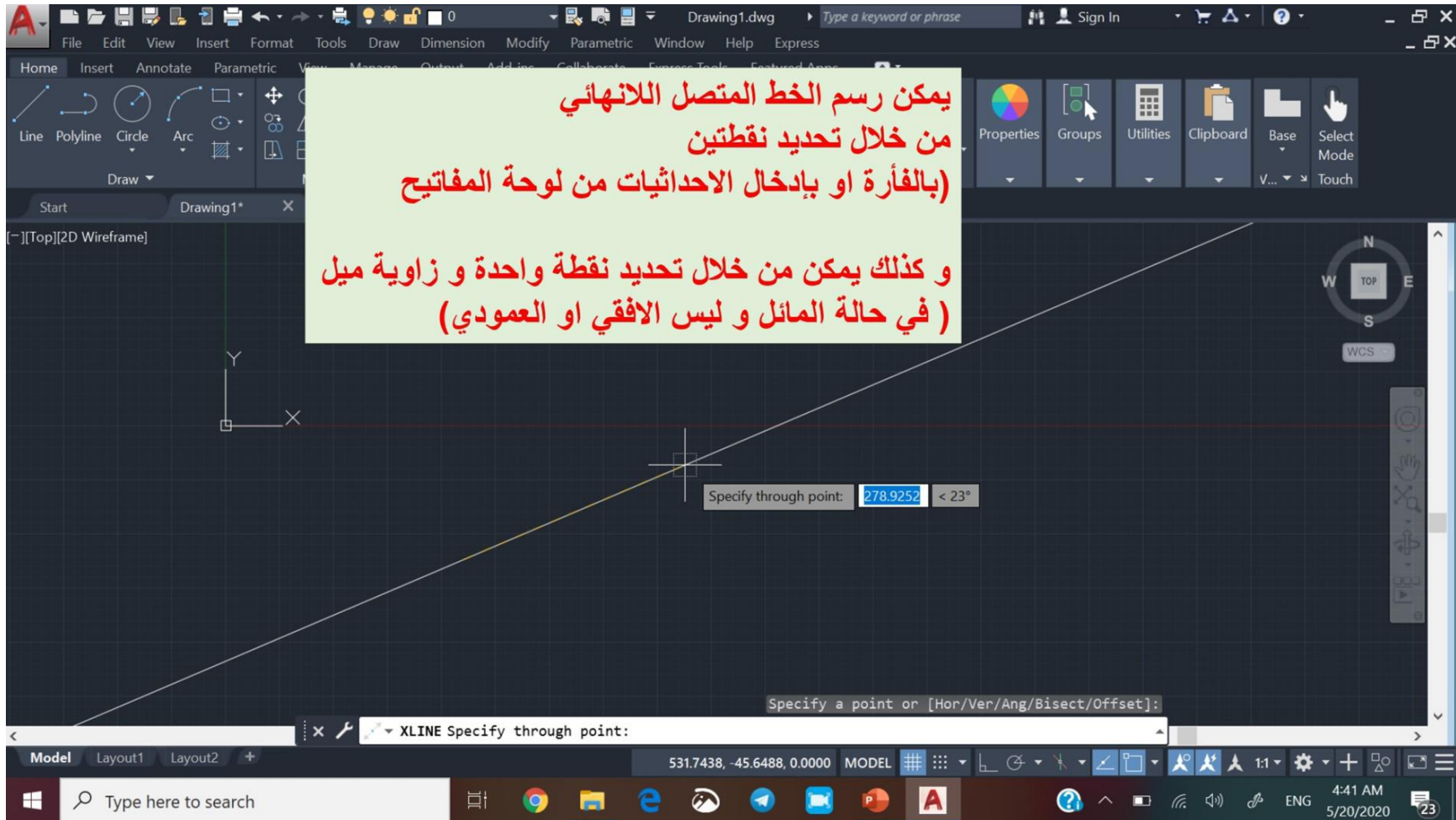
The screenshot shows the AutoCAD software interface with the XLINE command active. The command line at the bottom displays: `XLINE Specify a point or [Hor Ver Ang Bisect Offset]:`. Four yellow arrows point from the command line options to four green text boxes containing Arabic instructions:

- Hor:** عند تفعيل هذا الابعاز الفرعي ستكون الخطوط المرسومة عمودية فقط يمكن التفعيل بالضغط على الايكونة او بادخال Ver و من ثم اضغط ENTER
- Ver:** عند تفعيل هذا الابعاز الفرعي ستكون الخطوط المرسومة مائلة بزاوية يمكن التفعيل بالضغط على الايكونة او بادخال Ang و من ثم اضغط ENTER
- Ang:** عند تفعيل هذا الابعاز الفرعي عن تنصيف الزوايا يمكن التفعيل بالضغط على الايكونة او بادخال Bisect و من ثم اضغط ENTER
- Bisect:** عند تفعيل هذا الابعاز الفرعي ستكون الخطوط المرسومة افقية فقط يمكن التفعيل بالضغط على الايكونة او بادخال Hor و من ثم اضغط ENTER

The software interface also shows the 'Construction Line' tool palette on the left and the 'Properties' palette on the right.



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Command Line	Rectangle or Rec ↩
Menu Bar	Draw → Rectangle
Draw Bar	

When enter rectangle command, the program require specify first corner:

Specify first corner point or [Chamfer/ Elevation / Fillet / Thickness / Width]:

Specify other corner Point:

1. **Chamfer, C** ↩ : the chamfer command enables to place a chamfer at the rectangle corner

Specify first chamfer distance for rectangles<0.000>: in x direction

Specify second chamfer distance for rectangles<0.000>: in y direction



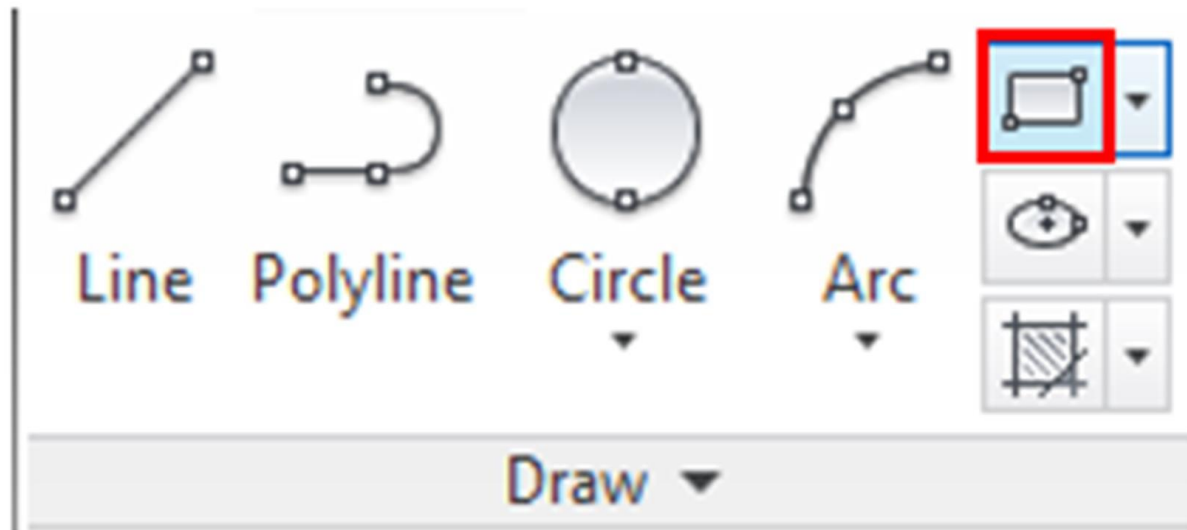
2. **Fillet, F** ↩ : the fillet command creates both fillets and rounds on any combination of two lines.

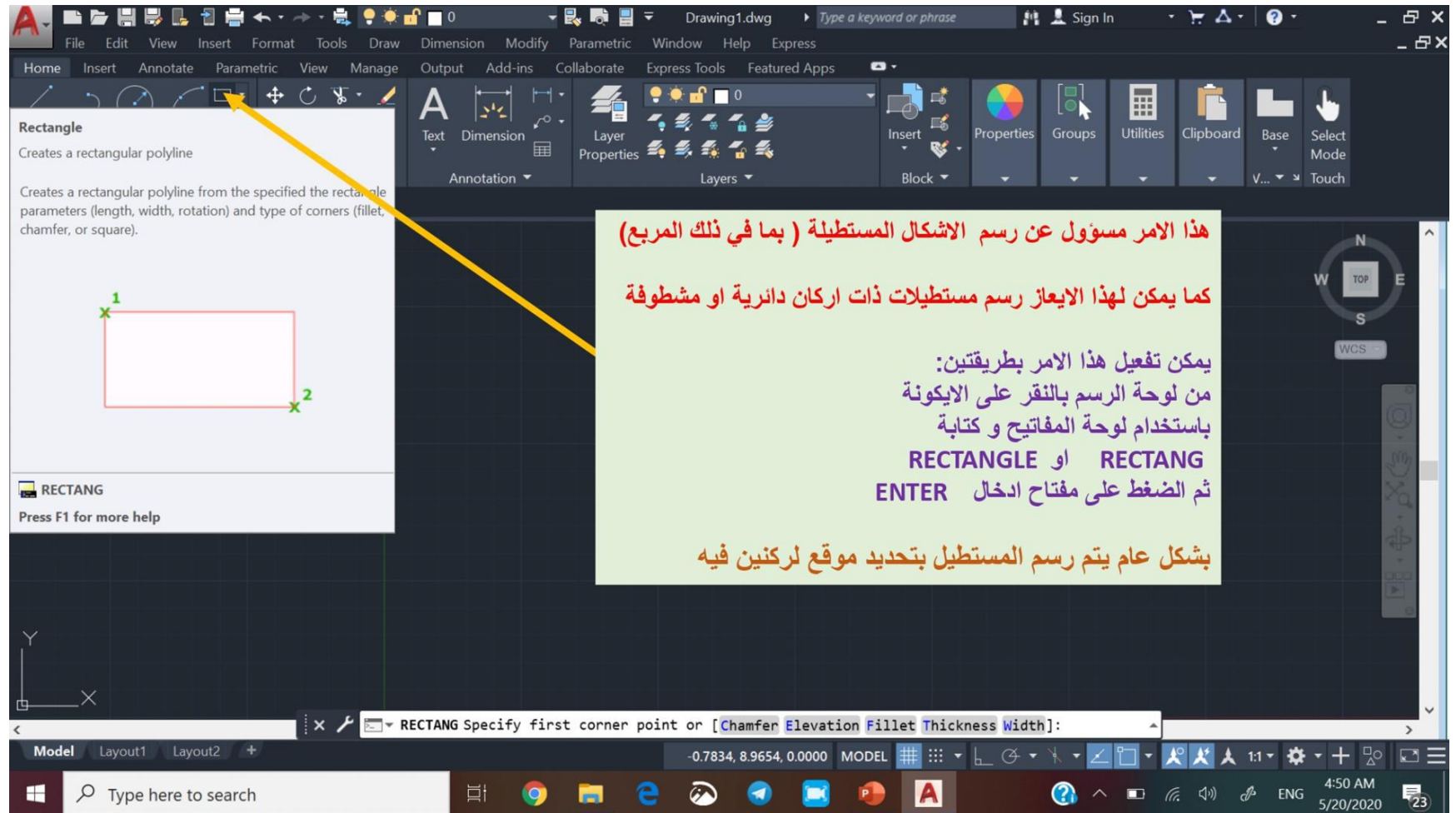
Specify fillet radius for rectangles<0.000>:





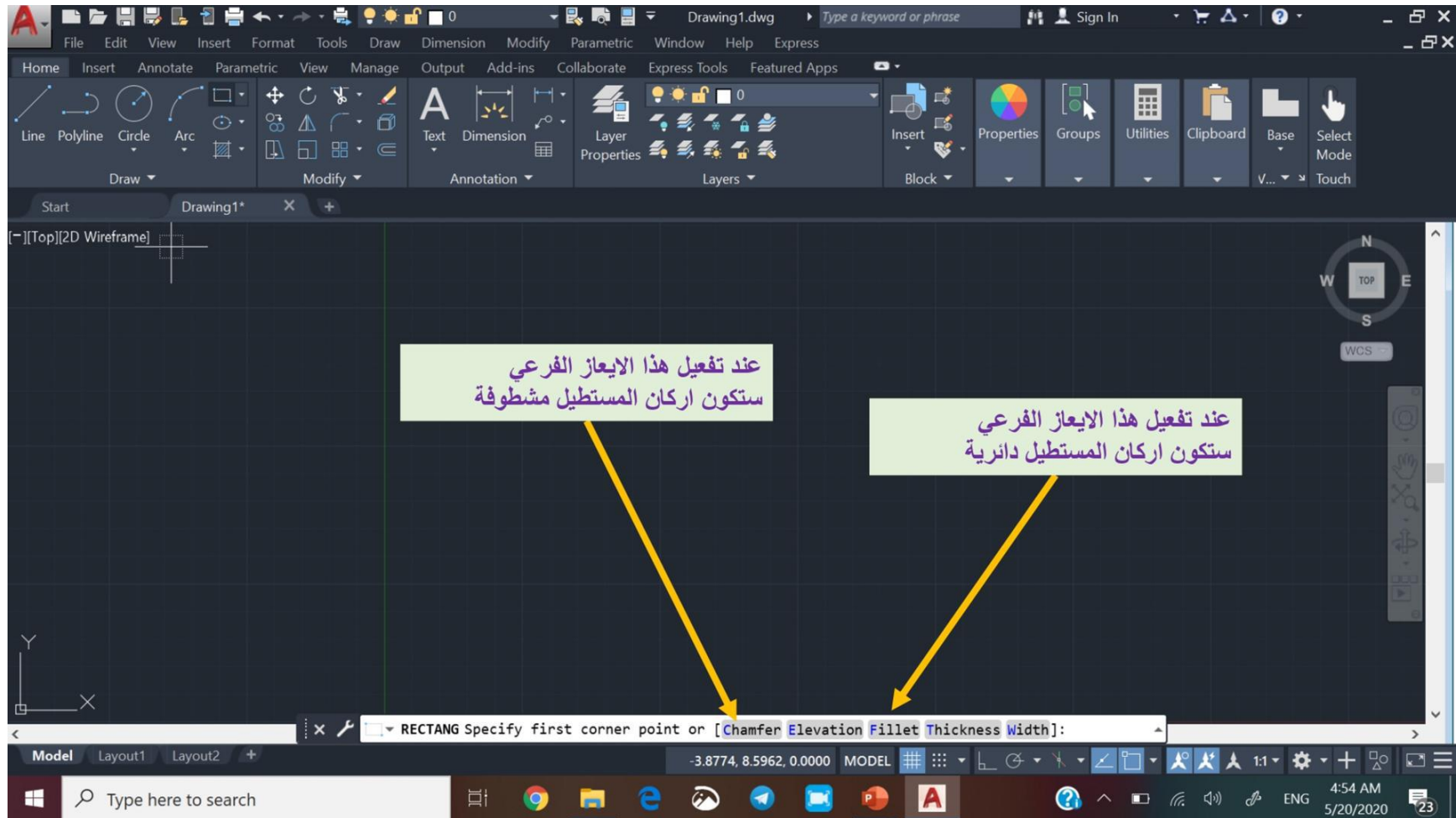
The **Rectangle** tool in AutoCAD creates a closed Polyline in the shape of a square or rectangle. To create a **Rectangle**, from the Ribbon **Home** tab > **Draw** panel, click the **Rectangle** button.





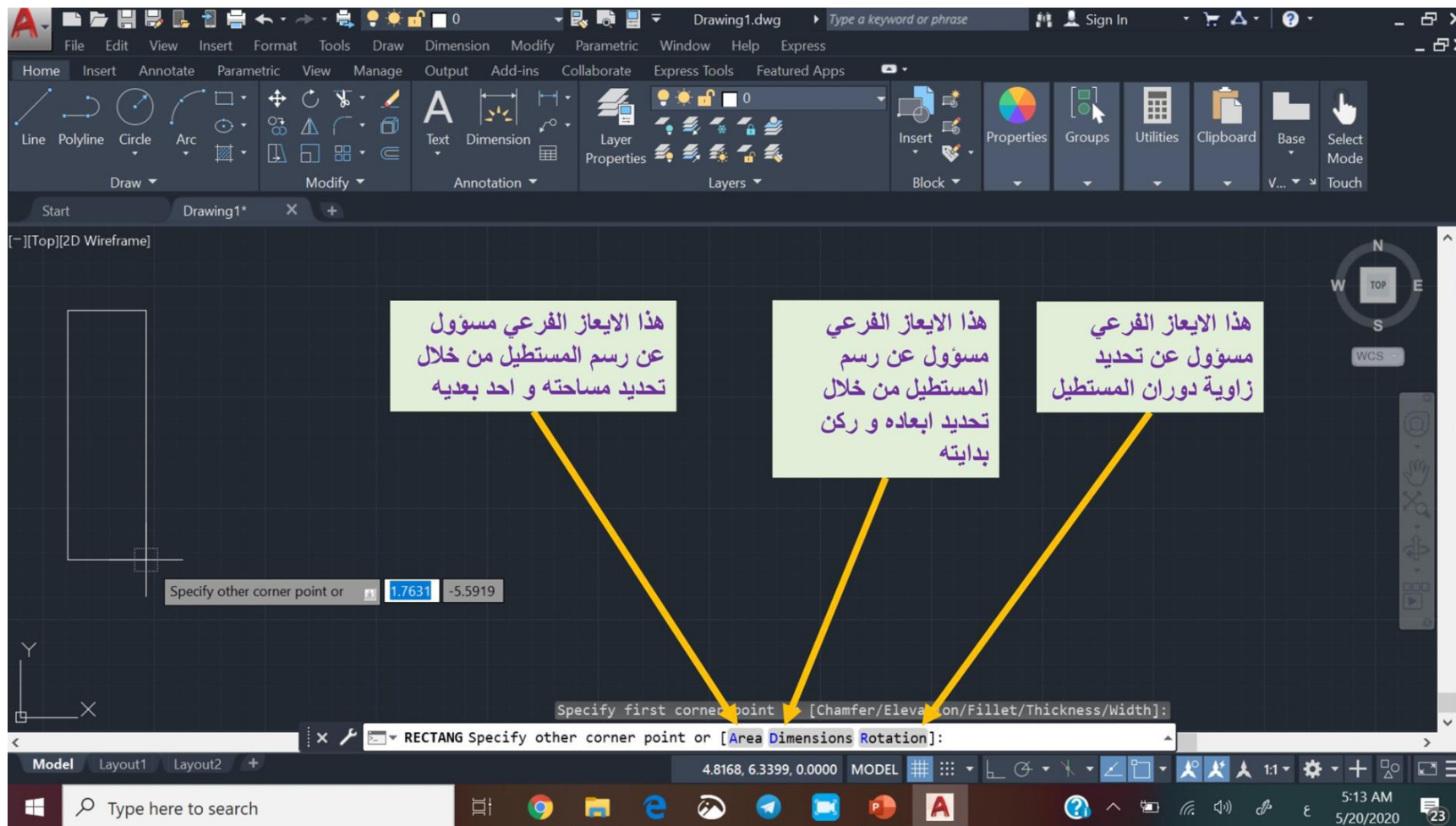


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