



Al-Mustaql University
College Of Engineering Technology
Department Of Cyber Security Techniques Engineering
Class: 1st
Subject: Drawing engineering
Lecturer: M.Sc. Afyaa Saad & M.Sc. Zahraa Hussein
1st term – Lecture 3:- Rectangle & Circle

الكلية التقنية الهندسية

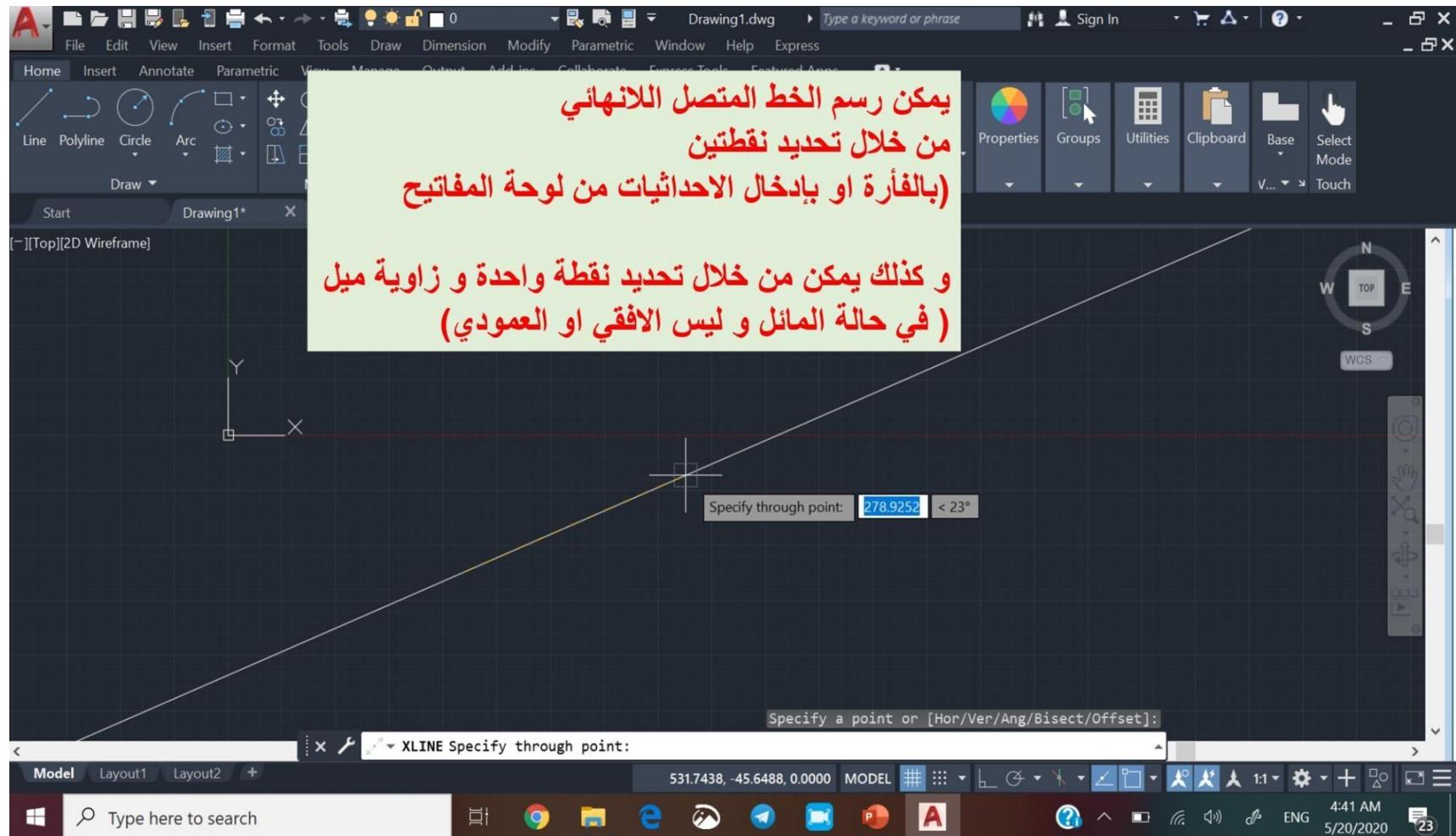
قسم هندسة تقنيات الامن السيبراني





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Rectangle

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>:



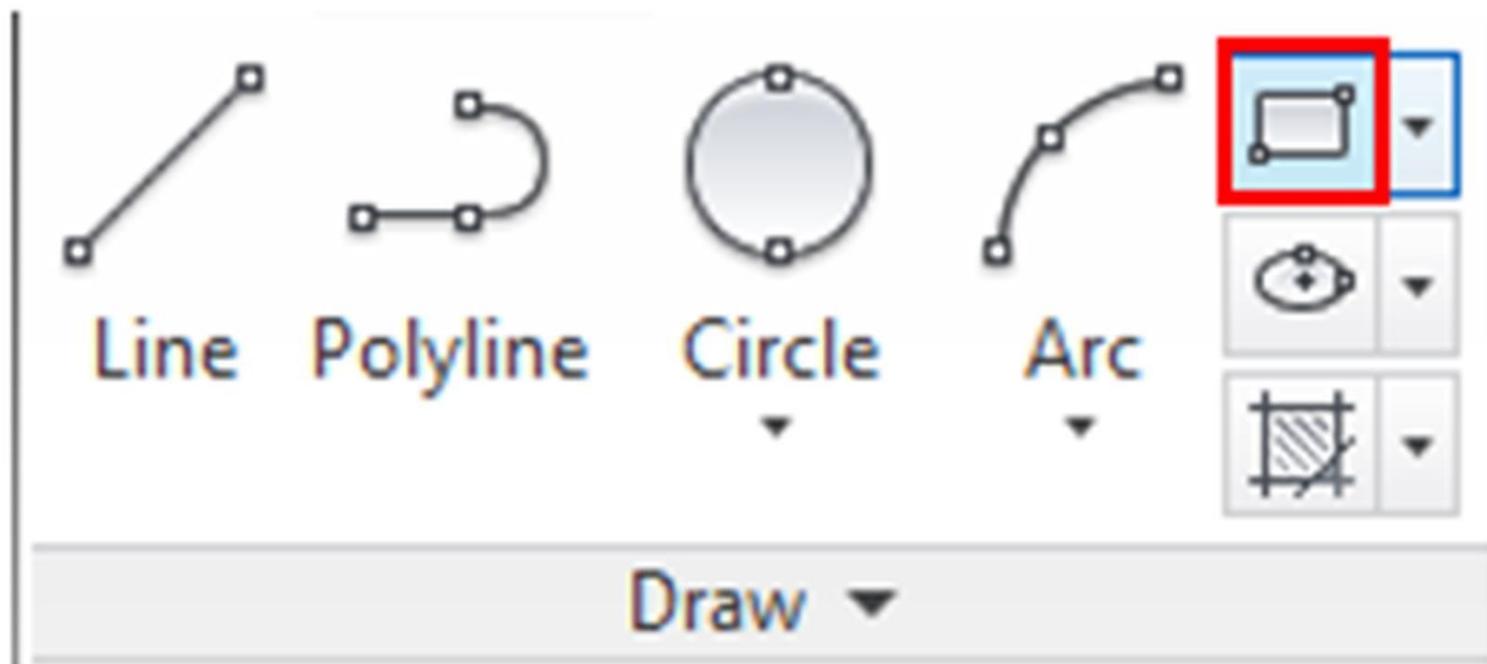


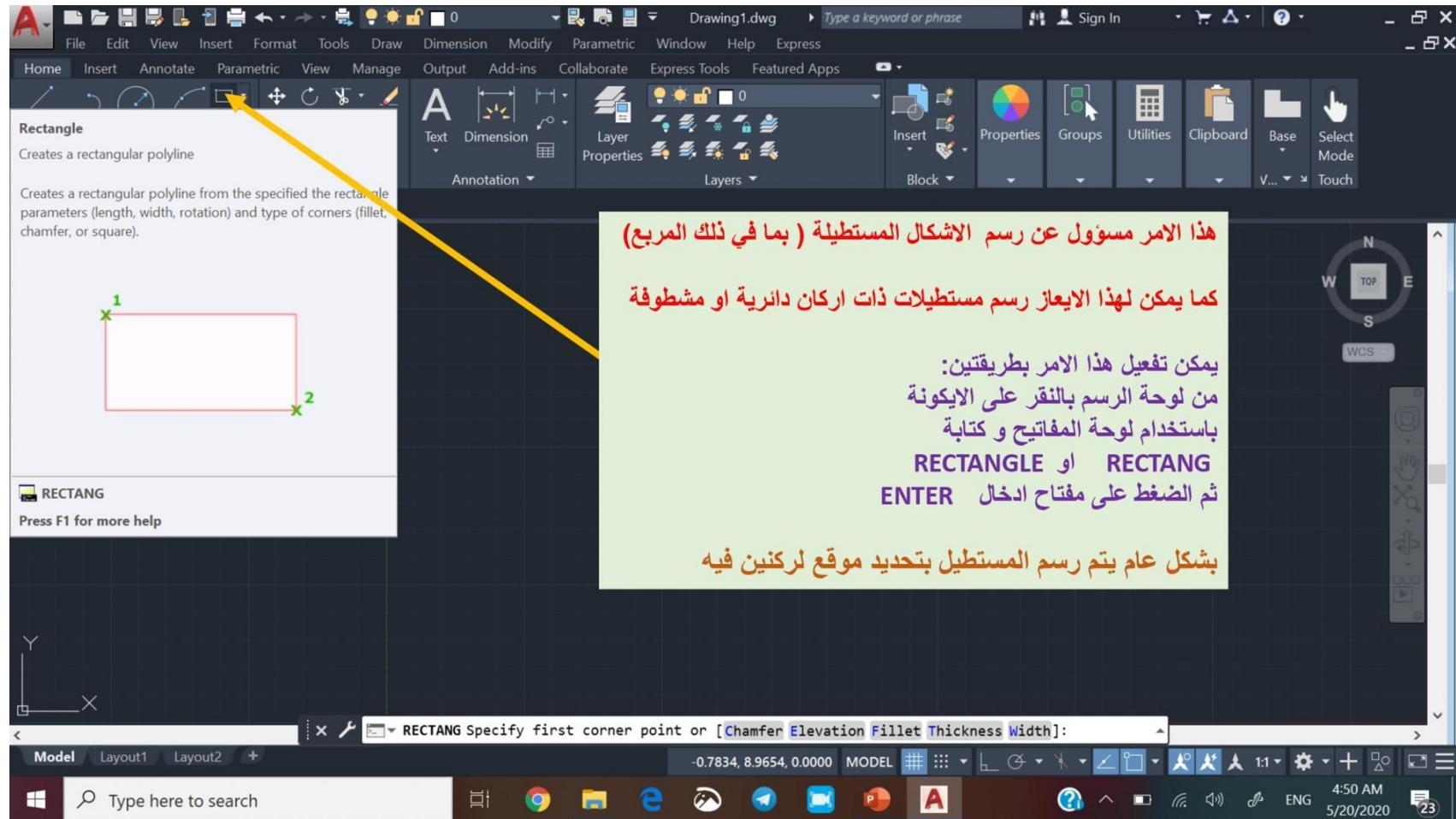
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The **Rectangle** tool in AutoCAD creates a closed Polyline in the shape of a square or rectangle.

To create a **Rectangle**, from the **Ribbon Home tab > Draw panel**, click the **Rectangle** button.







No need to change
لا داعي لغير هذا الادخل

You can change the accuracy of display
يمكنك تغير دقة العرض على الشاشة من خلال زيادة المراتب بعد الفارزة

Units changed to (millimeters)
تم تغير الوحدات وأصبحت بالمليمتر

ملاحظة: لا حاجة للوحدات أصلًا في اوتوكاد إلا في حالة النسخ من رسم إلى آخر

Decimal Degrees for angles
استخدام النظام العشري
يمكن تغير النظام الى نظام الدرجات و الدقائق
و الثانية او غير ذلك من أنظمة ادخال الزاوية

The digit after . Where increased to be two digits
تم زيادة عدد المراتب بعد الفارزة لزيادة دقة العرض بالنسبة للزوايا

Counterclockwise can be changes to Clockwise
اتجاه الزوايا عكس عقارب الساعة
يمكن تغيره ليكون مع عقارب الساعة بالنقر على هذا المربع

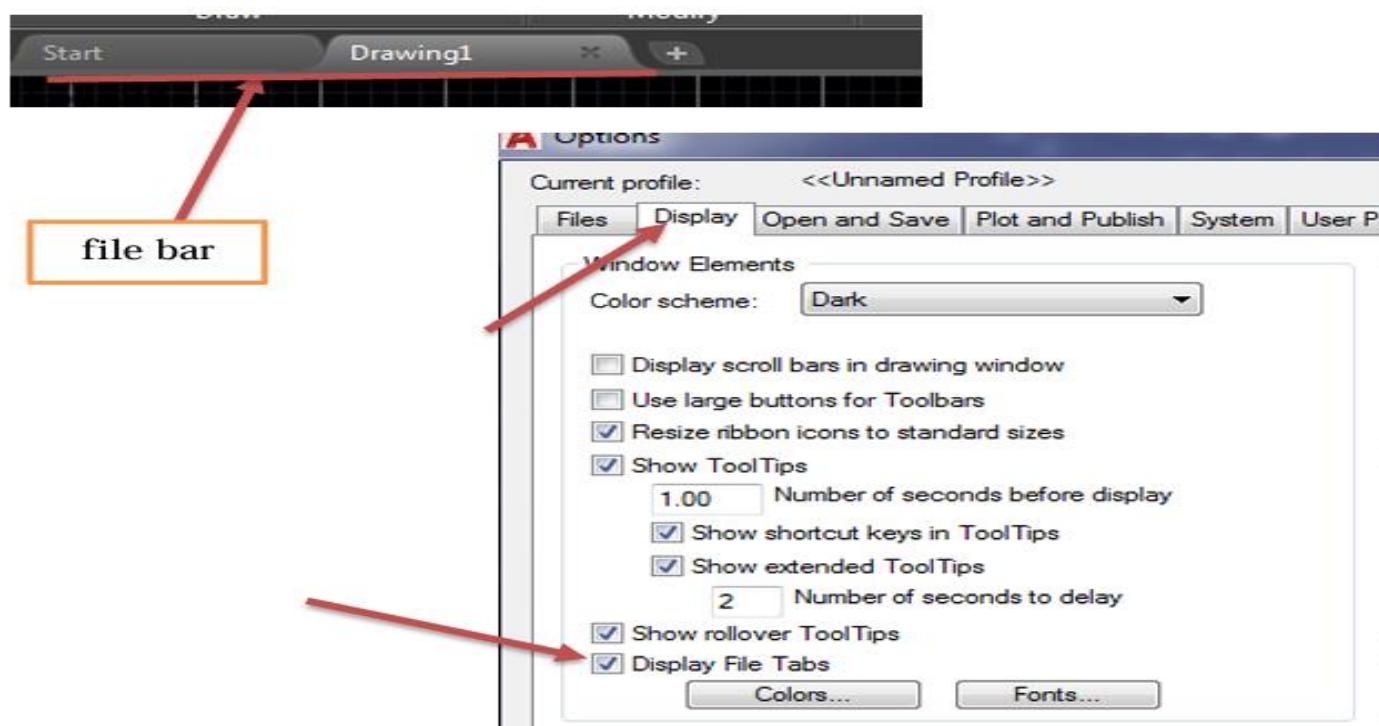


اظهار واخفاء اشرطة برنامجه الاوتوكاد (Show and hide AutoCAD bars)

- **File bar**

When file bar display then go to: option → Display → Display file bar

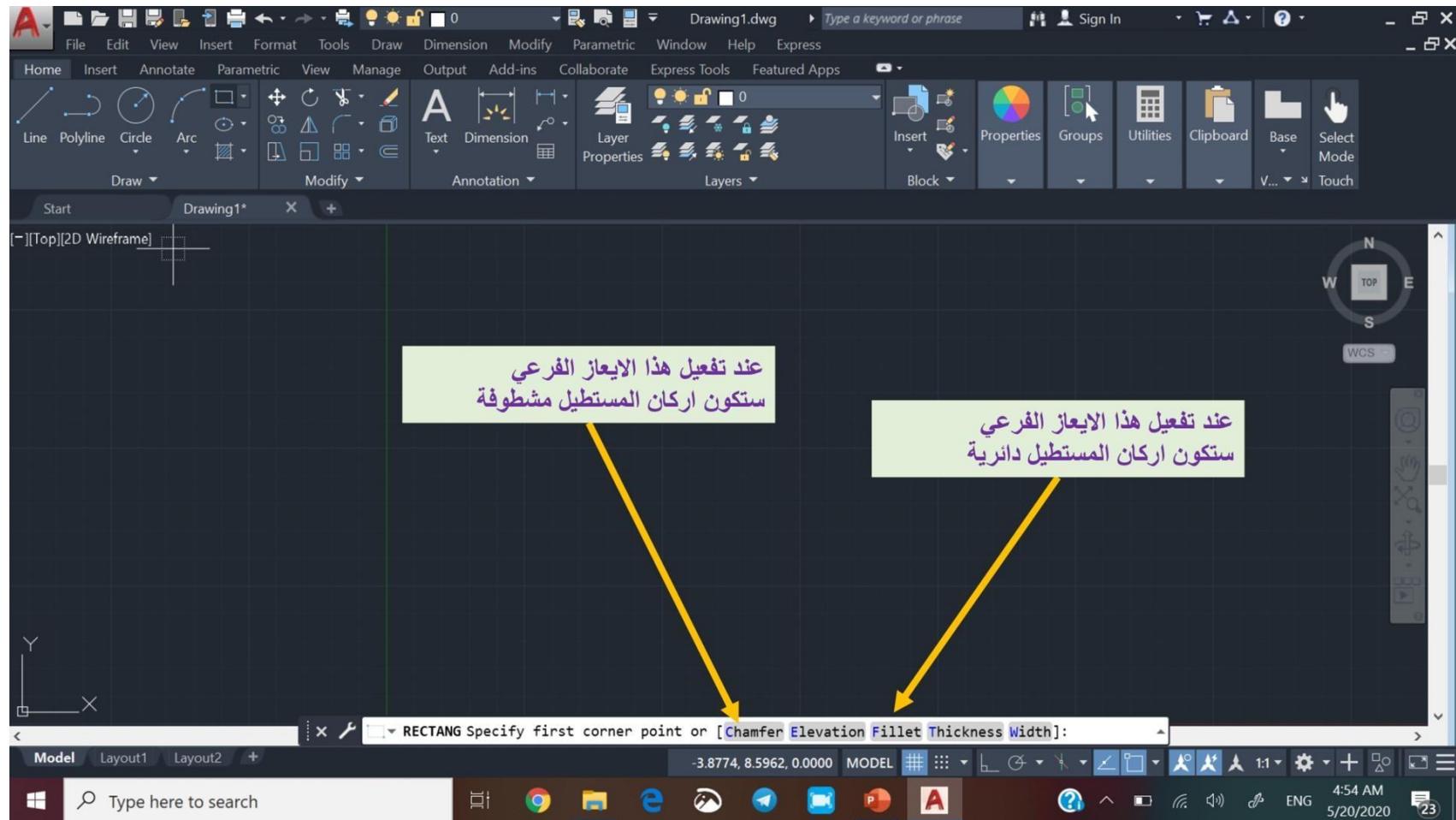
← Display ← option نضغط على الزر الأيمن للماوس ← خيار
 عند اختفاء file bar يفعل خيار Display file bar

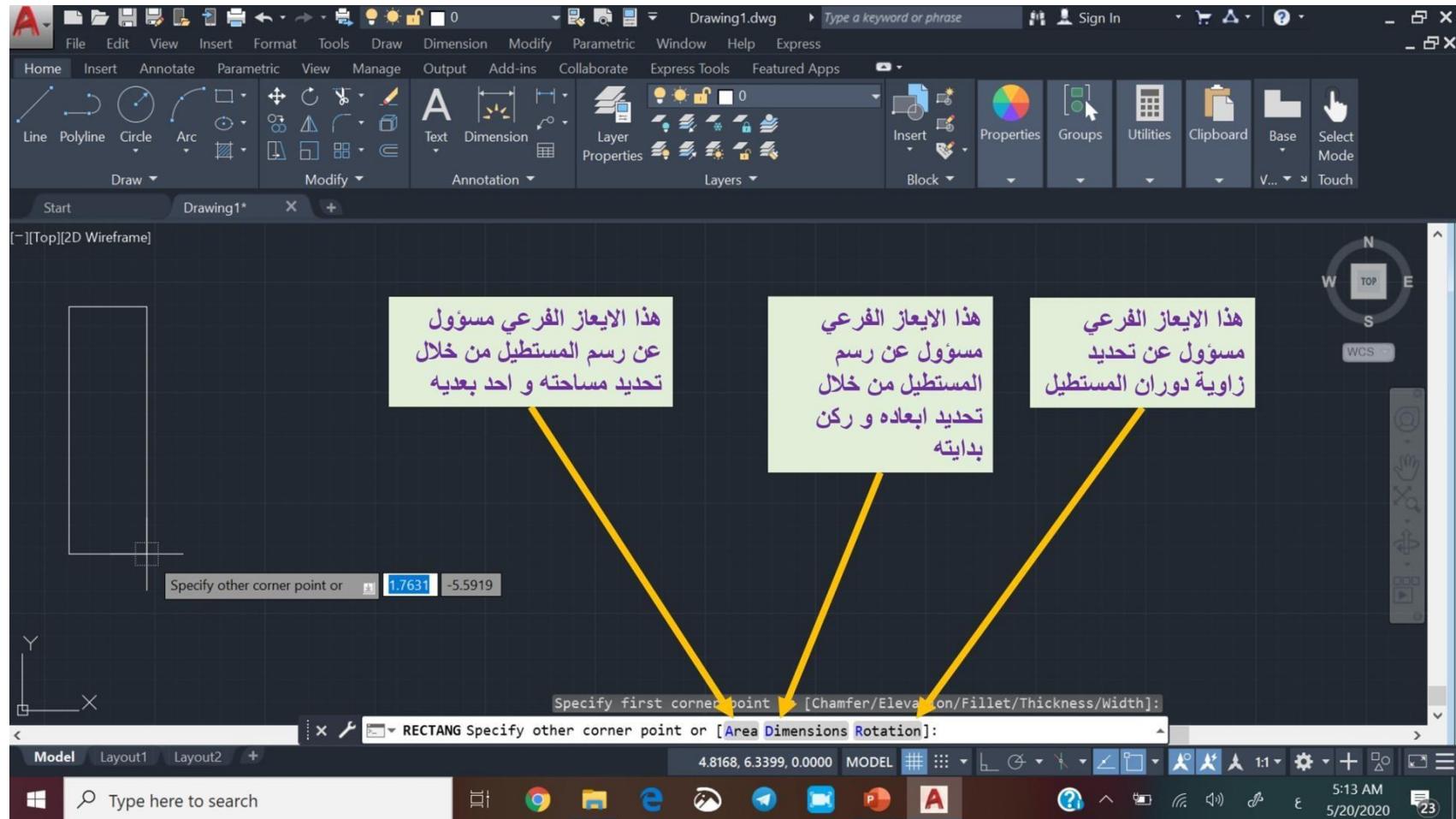




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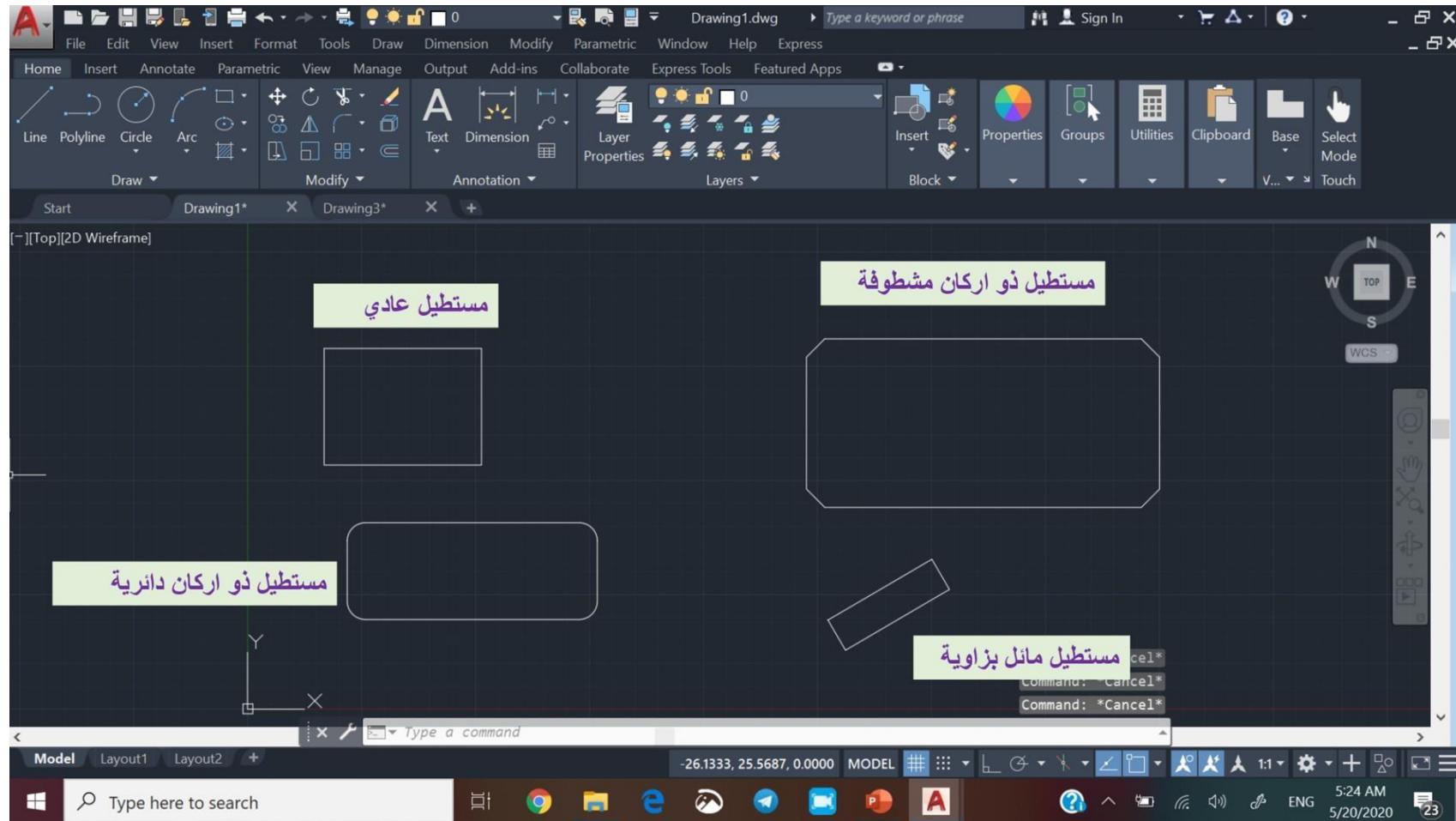






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Circle

Drawing circles is one of the important commands that can be accessed through several Options are Through the **Ribbon bar**, we choose the command (**circle**).

From the drop -down menu bar, we choose the **Draw** menu and choose the **Circle** command.

By typing the shortcut (**C**) in the command bar

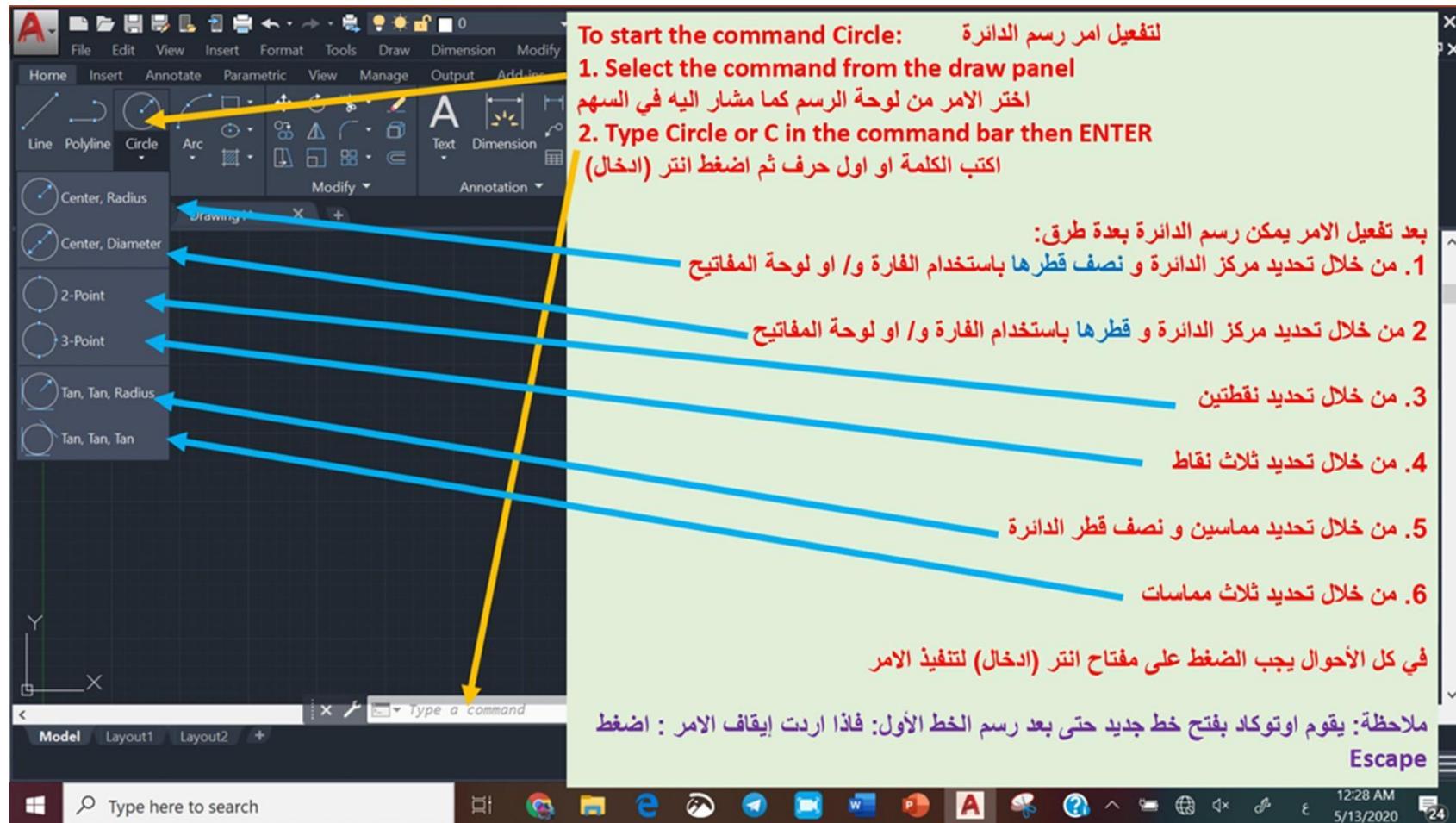
When you click on **Circle**, several options will appear, as follows:

Center, Radius

This command is used to draw a circle by selecting the center point and the radius length.

Center, Diameter

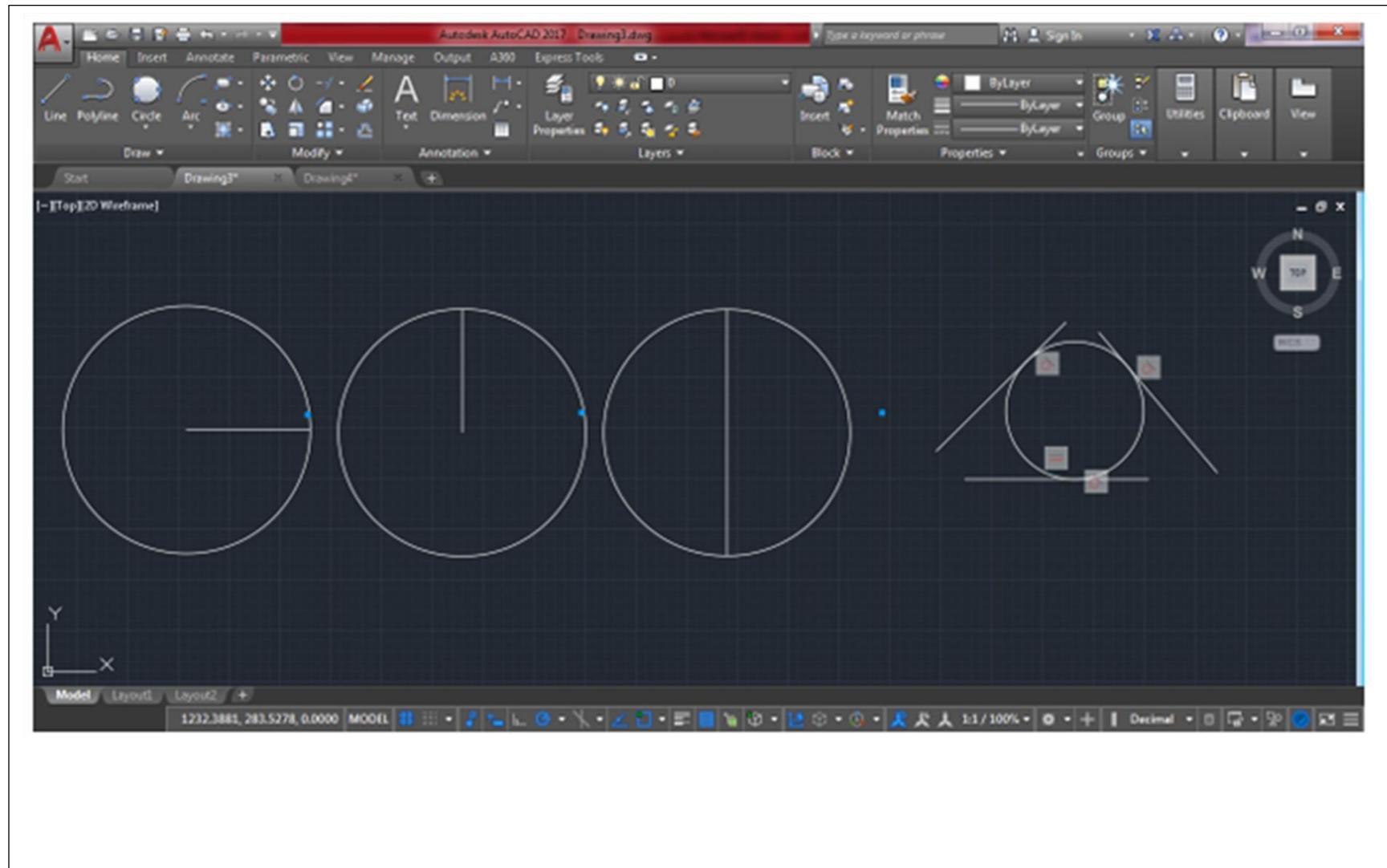
This command is used to draw a circle by selecting the center point and the diameter length.





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