



Auto CAD

Lecture ٣

Setup of the drawing g
Draw Line commands
Draw Polyline commar
Draw Circle commands

Application of Line and Circle commands

ضبط وحدات الرسم
ضبط الشبكة الخلفية للرسم
أوامر رسم خط
أوامر رسم خط متعدد
أوامر رسم دائرة



Draw list

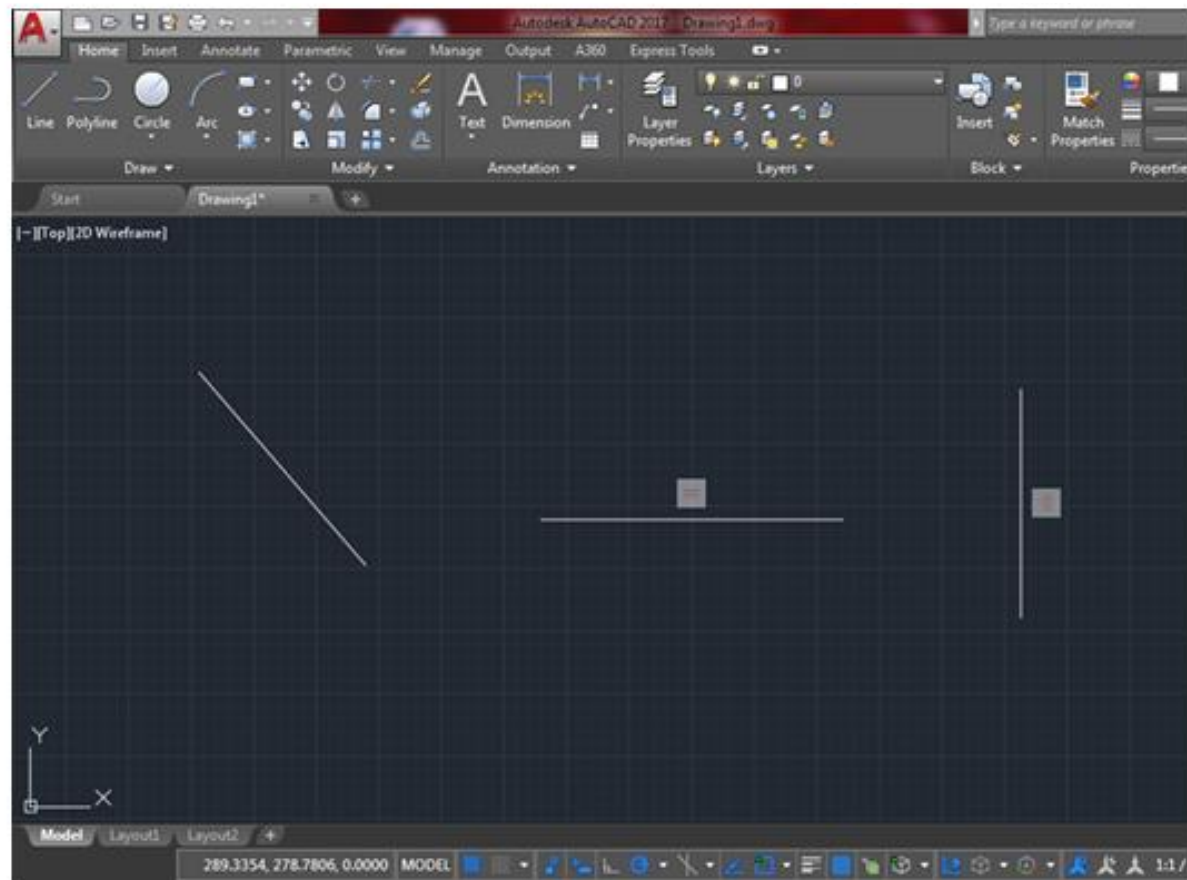
This list contains a set of commands, each of which draws a specific shape according to the inputs, which could be the starting point, the center, and the radius up to the ending point.

There are basic commands that you rely on when drawing shapes, due to their clarity and ease of finding them in the list. The commands are:



Line

One of the most important commands that can be used to draw a line, whether it is diagonal, straight or vertical.





To start the command Line: لتفعيل امر رسم الخط

1. Select the command from the draw panel
اختر الامر من لوحة الرسم كما موضح اليه في السهم
2. Type Line or L in the command bar then ENTER
اكتب الكلمة او اول حرف ثم اضغط انتر (الدخال)

بعد تفعيل الامر يمكن رسم الخط بعدة طرق:

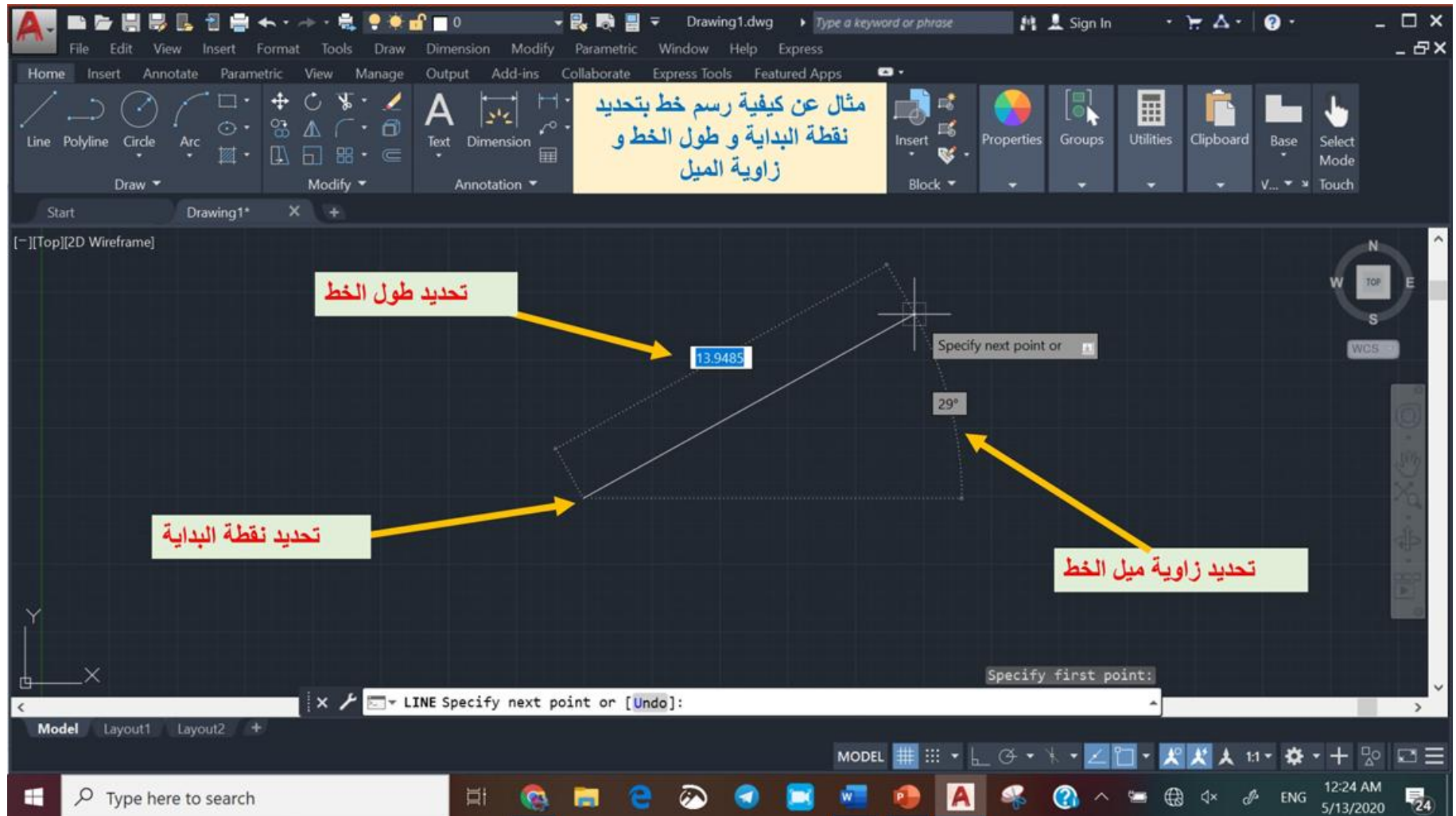
1. من خلال تحديد نقطتي البداية و النهاية باستخدام الفارة
2. من خلال تحديد احداثيات النقطتين باستخدام لوحة المفاتيح
3. من خلال تحديد النقطة الاولى و من ثم تحديد طول الخط و زاوية ميله

في كل الأحوال يجب الضغط على مفتاح انتر (الدخال) لتنفيذ الامر

ملاحظة: يقوم اوتوكاد بفتح خط جديد حتى بعد رسم الخط الاول: فاذا اردت إيقاف الامر : اضغط
Escape

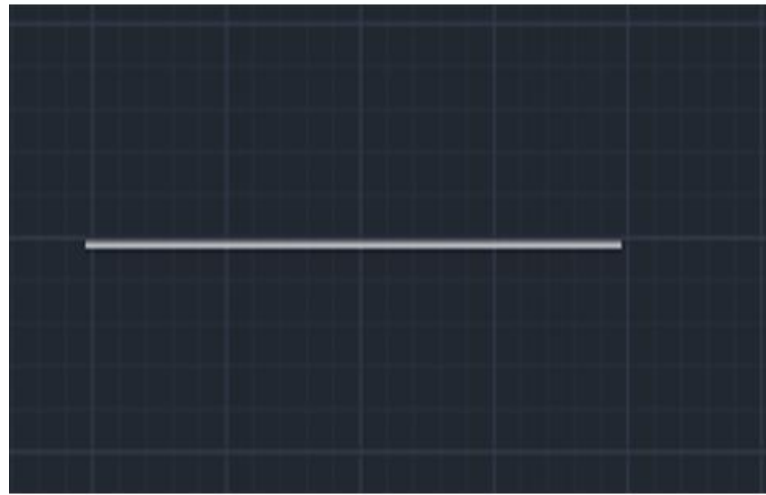


Al-Mustaqbal University
Department (Department of Prosthetics & Orthotics Engineering)
Class (First)
Subject (Computer aided drawing)
Lecturer (Asst.Lec.Ghadeer Haider Abbas)
1st term – Lect. 1 (مقدمة عن اوتوكاد)





Draw a straight line with a value of ١٠٠٠ and a distance of zero

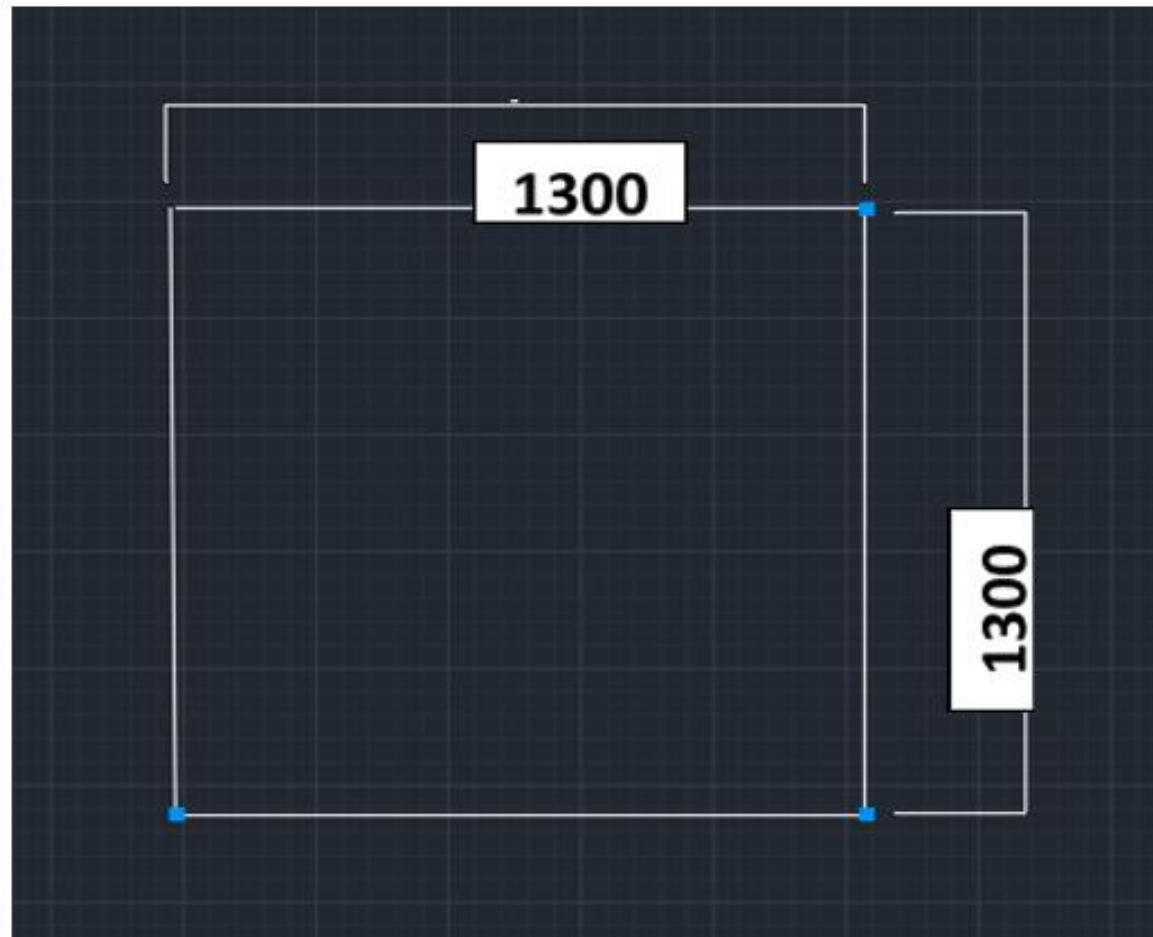


Draw a straight line with a period of length (٢٠٠٠) and a strength of (٩٠).





Draw a square, the length of each side of the square is (١٣٠٠).





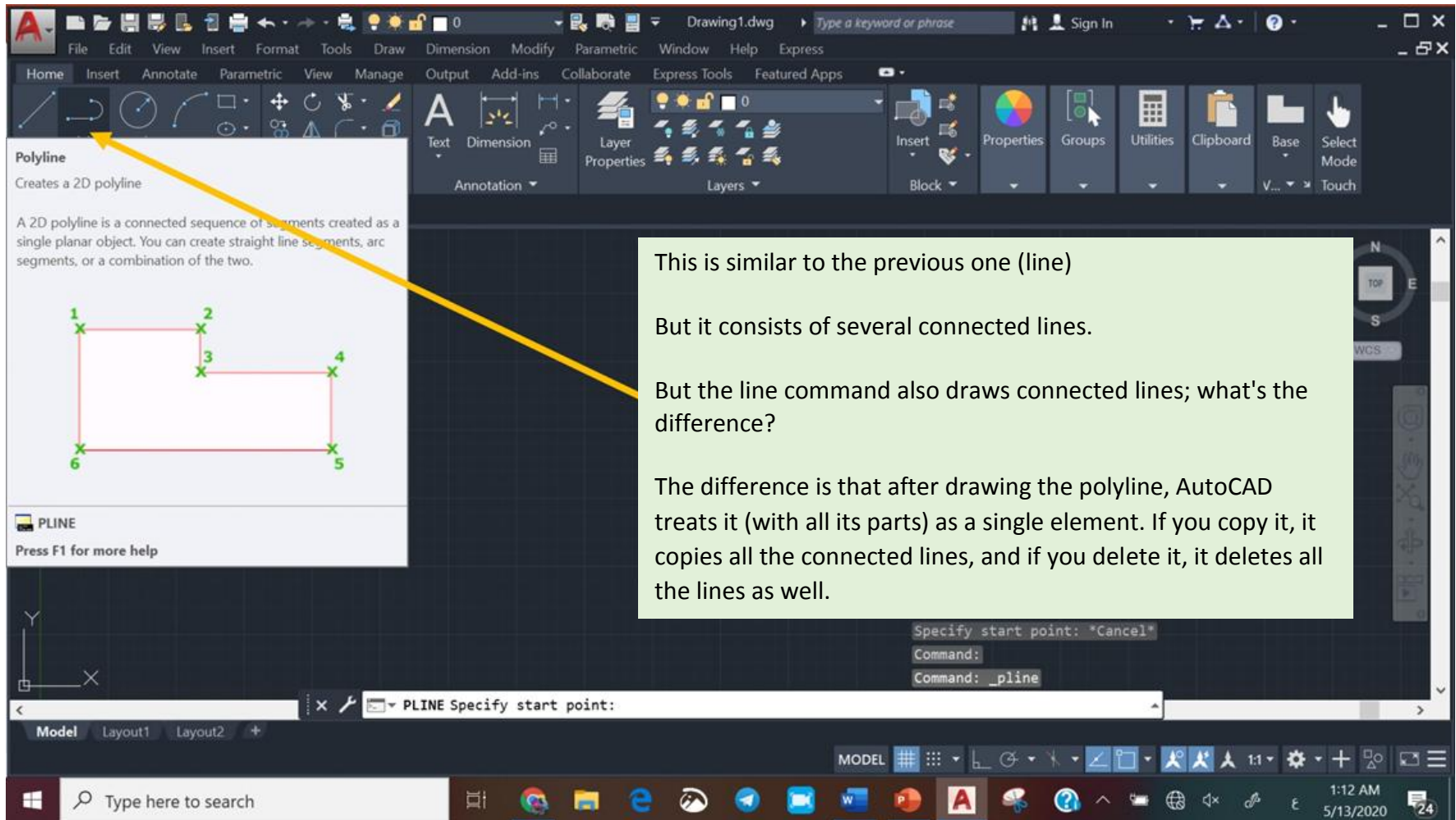
Polyline

This command is used to draw a line composed of multiple lines. There are three ways to achieve this:

Command:

- ١ - Through the drop-down menu bar, where we choose Draw, then Polyline.
- ٢ - Through the drawing toolbar, we choose the polyline command.

This command is characterized by the fact that it is possible to draw straight lines and arcs connected to each other. This command is also characterized by the fact that it is possible to give a thickness at the beginning of the line that is different from the thickness at its end.





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.



To start the command Circle: لتفعيل امر رسم الدائرة

- 1. Select the command from the draw panel**
اختر الامر من لوحة الرسم كما موضح في السهم
- 2. Type Circle or C in the command bar then ENTER**
اكتب الكلمة او اول حرف ثم اضغط انتر (ادخال)

بعد تفعيل الامر يمكن رسم الدائرة بعدة طرق:

1. من خلال تحديد مركز الدائرة و نصف قطرها باستخدام الفأرة و/ او لوحة المفاتيح
2. من خلال تحديد مركز الدائرة و قطرها باستخدام الفأرة و/ او لوحة المفاتيح
3. من خلال تحديد نقطتين
4. من خلال تحديد ثلاث نقاط
5. من خلال تحديد مماسين و نصف قطر الدائرة
6. من خلال تحديد ثلاث مماسات

في كل الأحوال يجب الضغط على مفتاح انتر (ادخال) لتنفيذ الامر

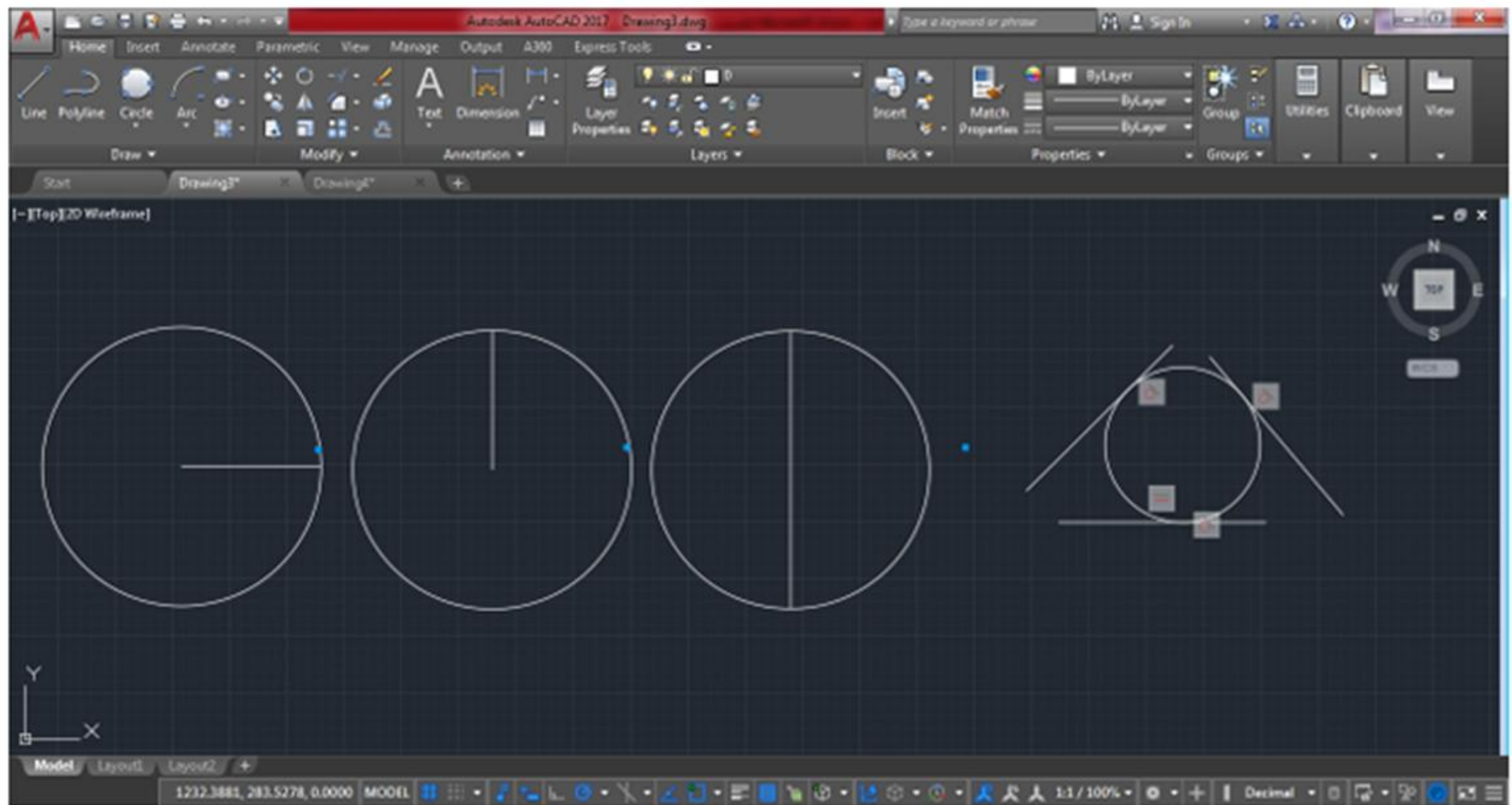
ملاحظة: يقوم اوتوكاد بفتح خط جديد حتى بعد رسم الخط الأول: فاذا اردت إيقاف الامر : اضغط

Escape



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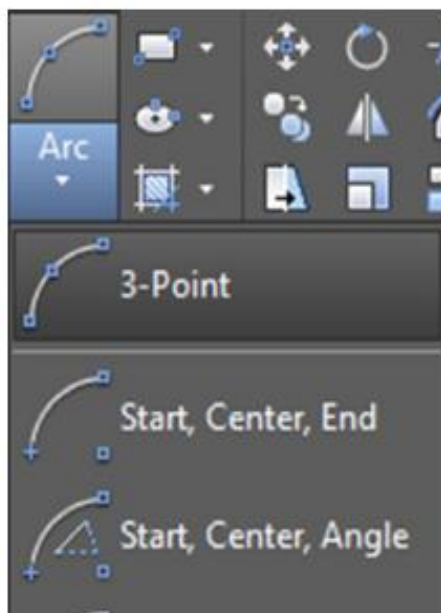


Using the Arc Tool

Open the file Arc-Bin Container.dwg.

Now you will use the option on the Arc command  to finish the floor of the bin container. As with other tools, you can follow the prompts in the Command Line for different options, but there are options that appear in the Ribbon and Draw menu that are not available in the Command Line. As shown in the screenshot below, click

on the Arc  drop down menu in the Draw panel of the Ribbon.

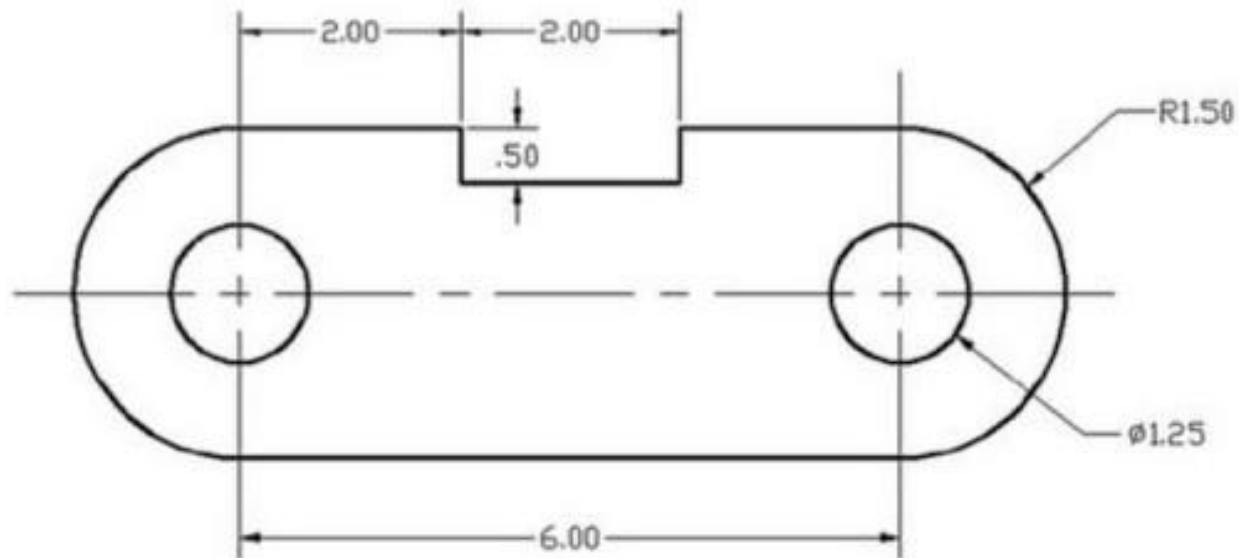






Class work : Draw the following figures using AutoCAD commands.

1.





Home work

