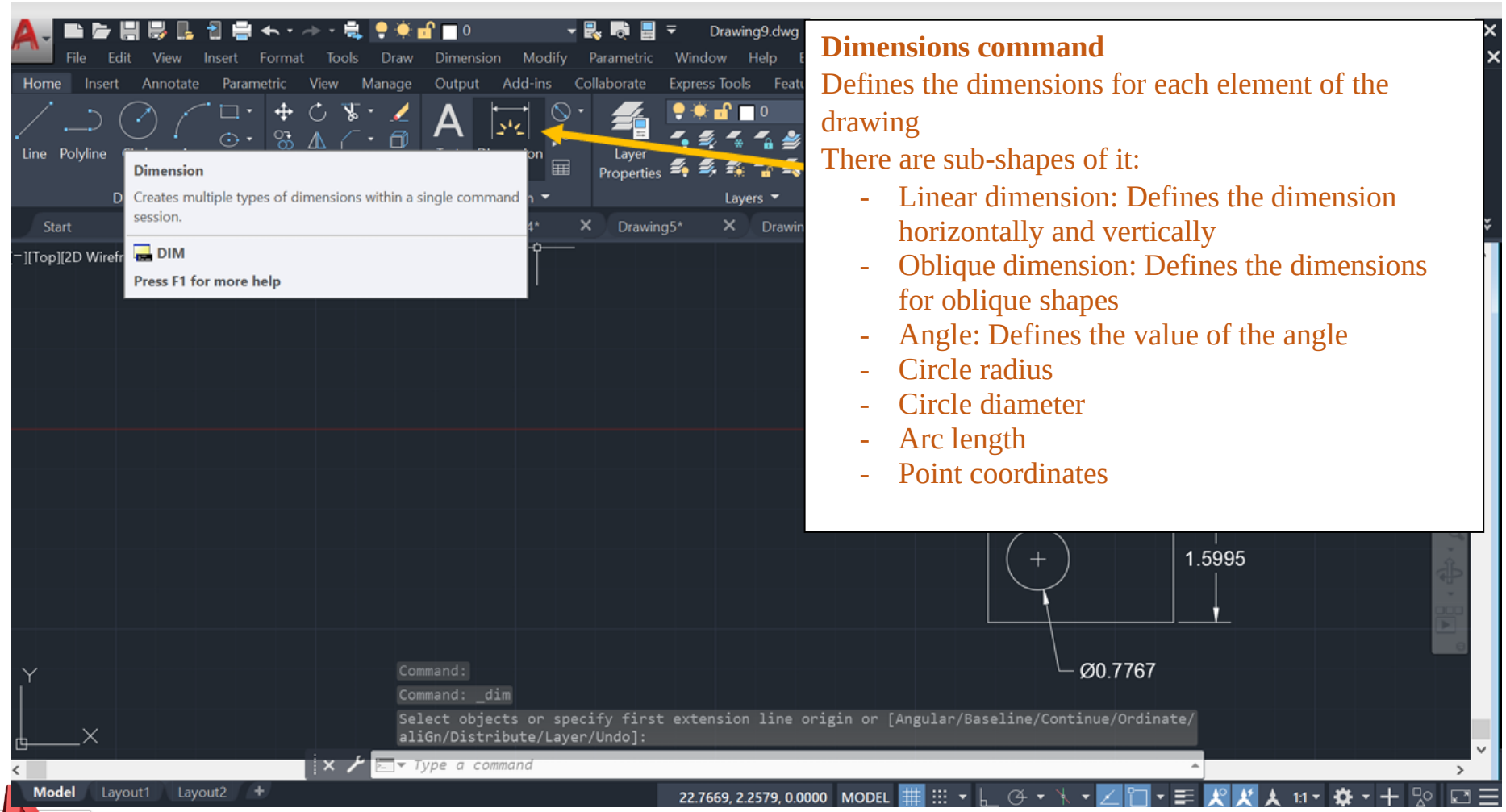
Al-Mustaqbal University
Department (Communications Engineering)
Class (1ST class)
Subject (Engineerind drawing) /code (UOMU028014)
Lecturer (Doaa Hazim Aziz)
1st/2nd term – Lect. (Dimensions commands)

Dimensions command:



Dimensions command

Defines the dimensions for each element of the drawing

There are sub-shapes of it:

- Linear dimension: Defines the dimension horizontally and vertically
- Oblique dimension: Defines the dimensions for oblique shapes
- Angle: Defines the value of the angle
- Circle radius
- Circle diameter
- Arc length
- Point coordinates

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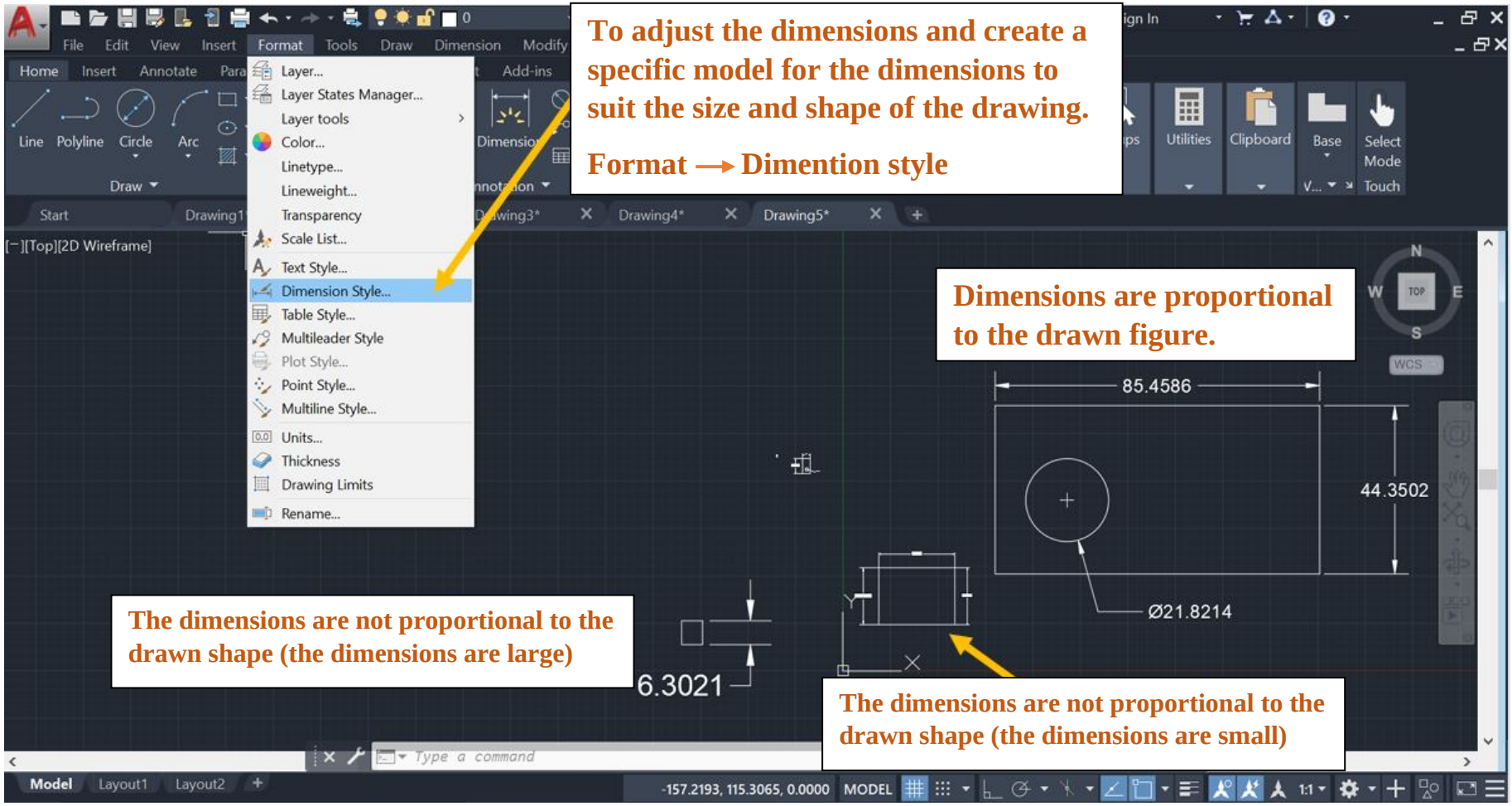
Dimentione style:



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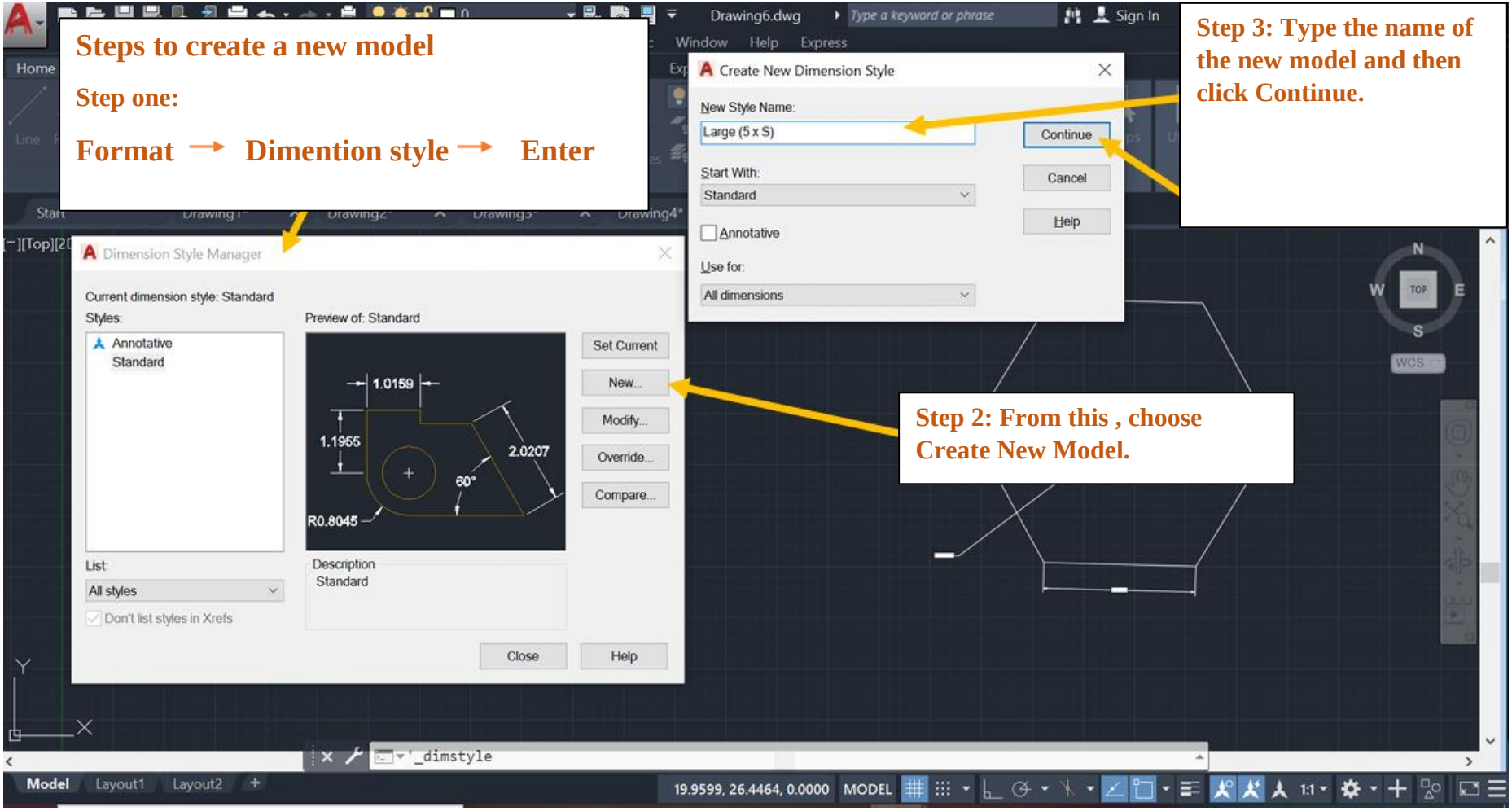

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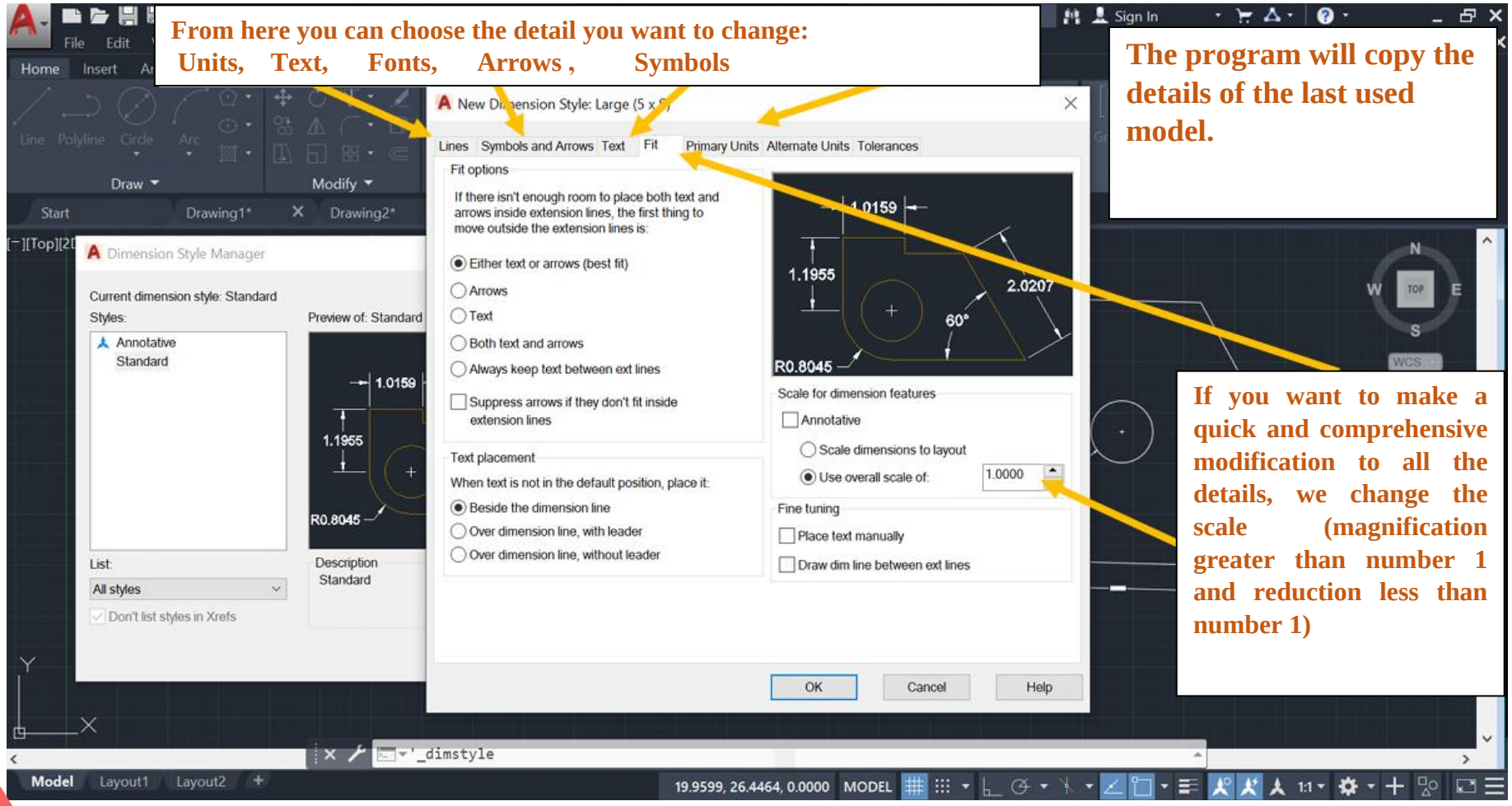

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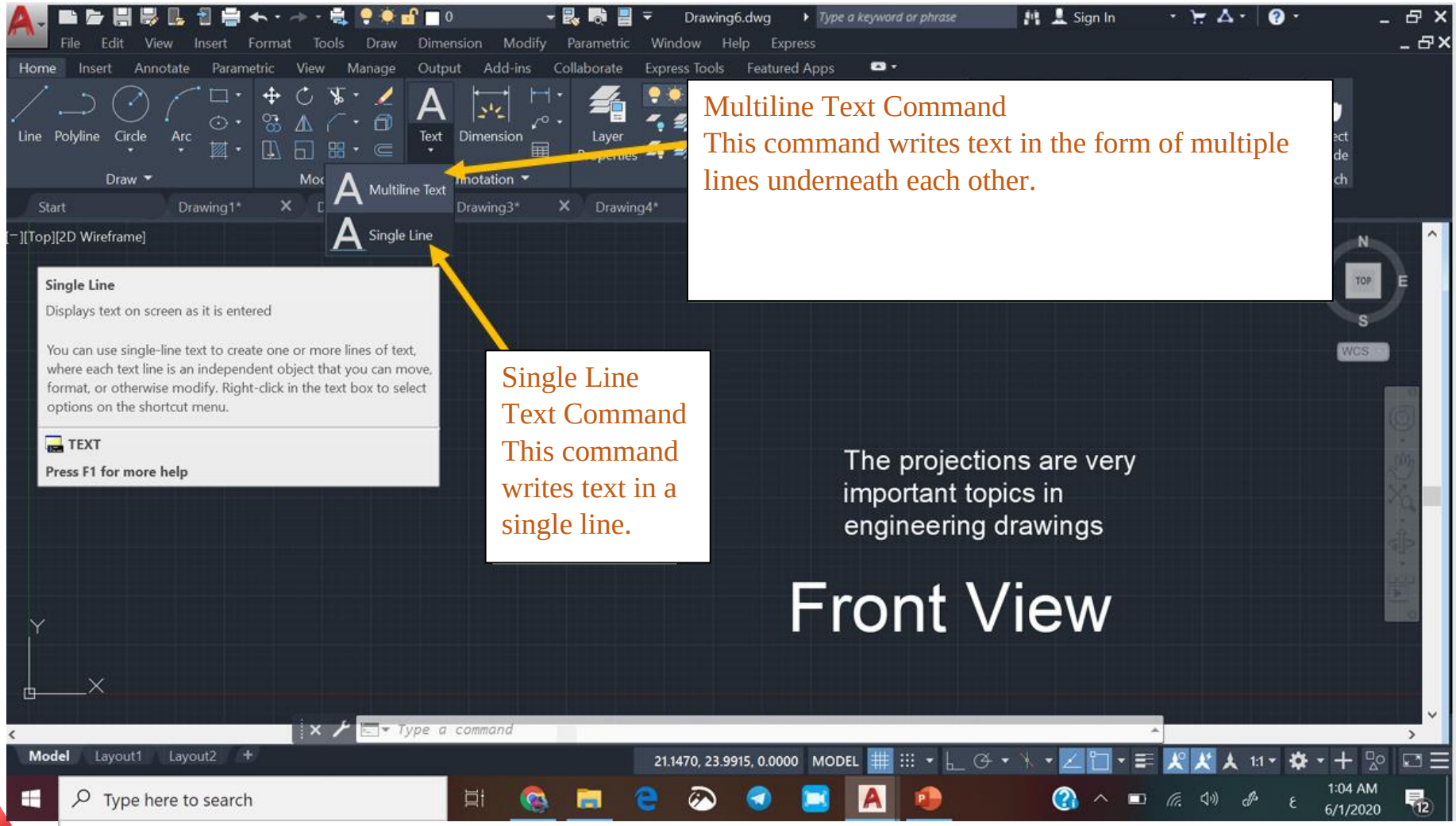
Text:



Types of lines and their uses:

In order for the drawing to be more expressive and more understandable, it must be done using lines of different thicknesses and shapes.

The lines can be either thick or thin.

Thick lines are used to draw the real visible parts, while other lines that are added to the drawing to increase its clarity, such as dimension lines, cutting lines, etc., are drawn with a thin thickness.

The ratio of the thickness of the thick line to the thickness of the thin line must not be less than 1:2.

The amount of thickness is chosen according to the size and type of the drawing.

The lines must be coordinated, regular, uniform in thickness, and clear.

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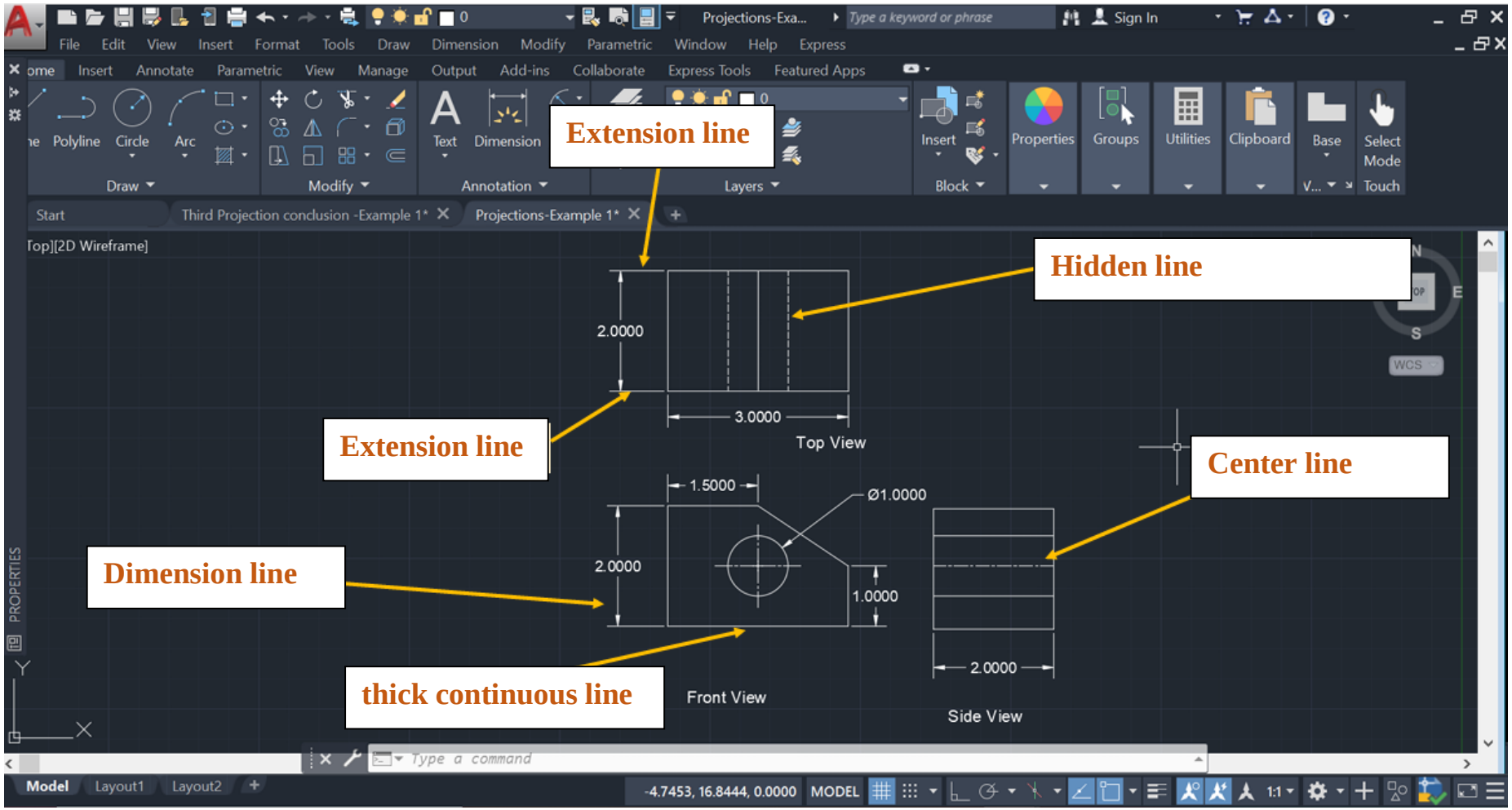

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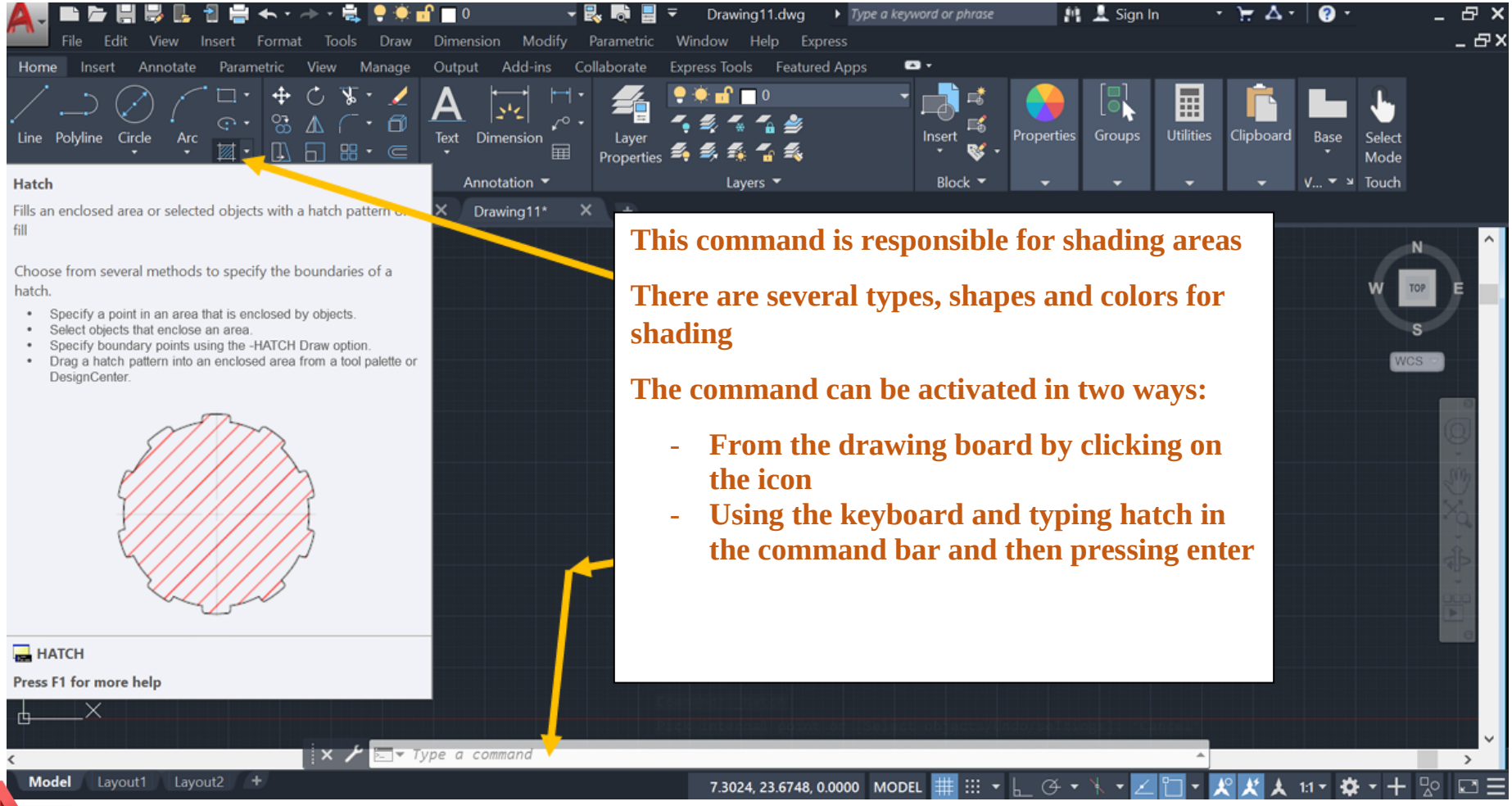
Hatch:



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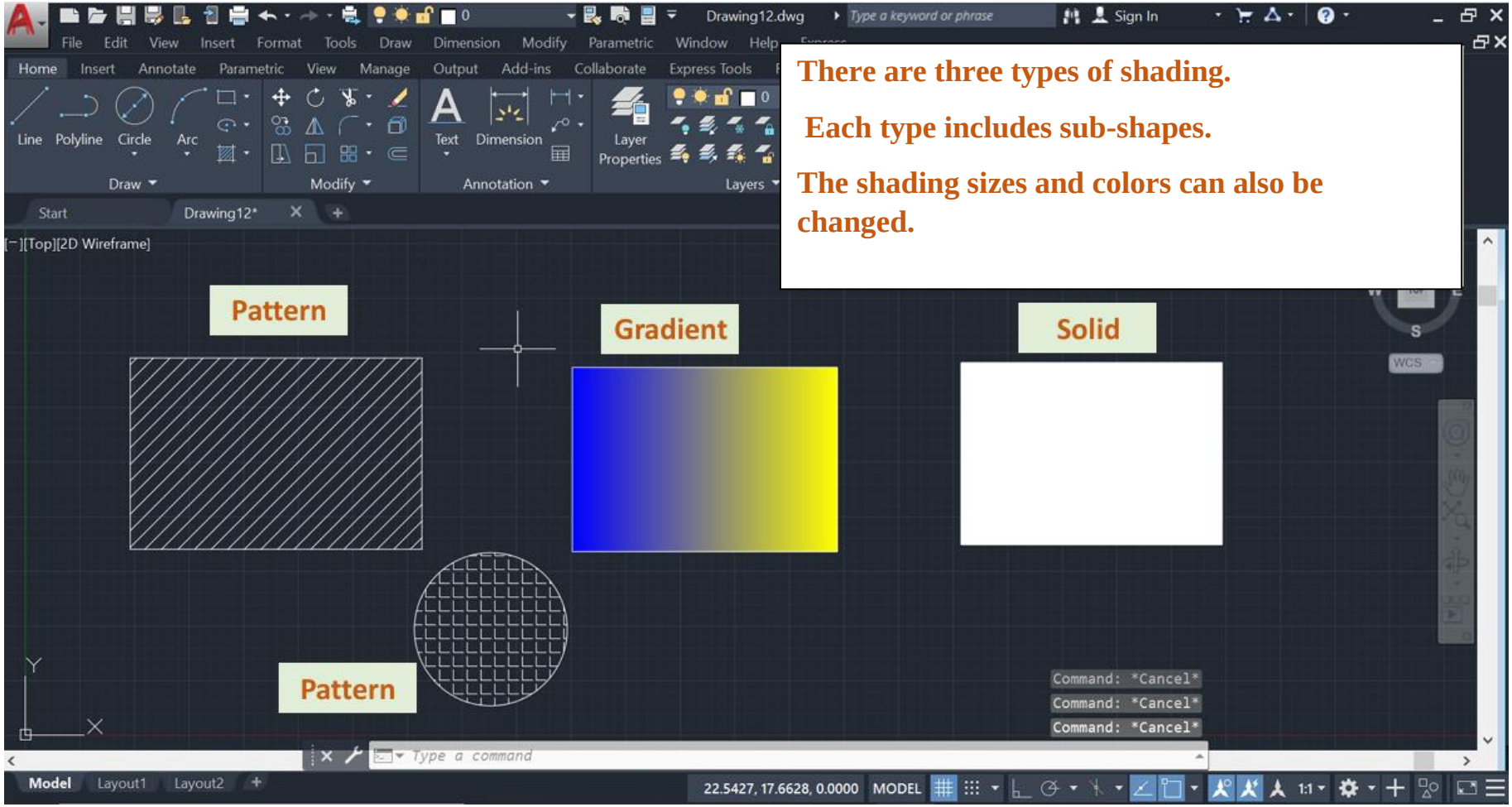

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