

Ex. No. 2

LEARNING OBJECTIVES

After completing this lesson, you will be able to know different ways for drawing the line

Drawing with the Line tool

1. Open AutoCAD. The drawing area will show the settings of the **Acadiso.dwt** template
2. *Left-click* on the **Line** tool in the **2D Draw** control panel (Fig. 2.1).



Fig. 2.1 The **Line** tool from the **2D Draw** control panel or from the **Draw** toolbar

Note

- (a) The tooltip which appears when the tool icon is *clicked*.
- (b) The prompt **Command: line Specify first point:** which appears? in the command window at the command line (Fig. 2.2).



Fig. 2.2 The prompt appearing at the command line in the command palette when **Line** is "called"

4. Move the mouse around the drawing area. The cursor's pick box will jump from point to point at 5 unit intervals. The position of the pick box will show as coordinate numbers in the status bar (left-hand end).
 5. Move the mouse until the coordinate numbers show **60,240,0** and press the **Pick** button of the mouse (*left-click*).
 6. Move the mouse until the coordinate numbers show **260,240,0** and *left-click*.
 7. Move the mouse until the coordinate numbers show **260,110,0** and *left-click*.
 8. Move the mouse until the coordinate numbers show **60,110,0** and *leftclick*.
 9. Move the mouse until the coordinate numbers show **60,240,0** and *leftclick*.
- Fig. 2.3 appears in the drawing area



Fig. 2.3 First example – **Line** tool

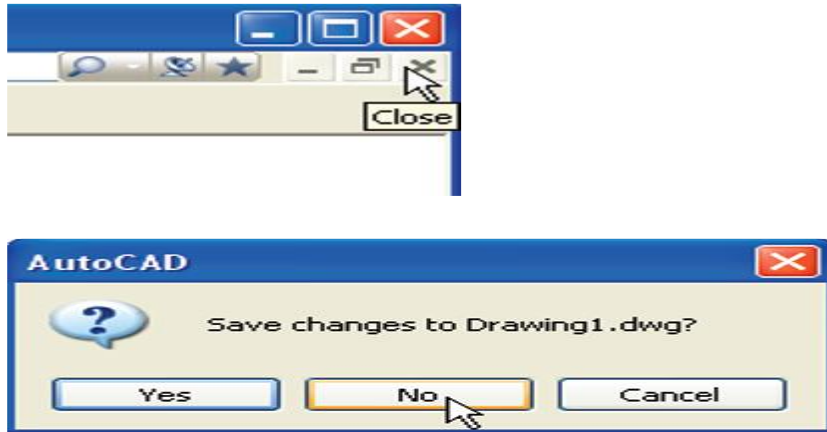
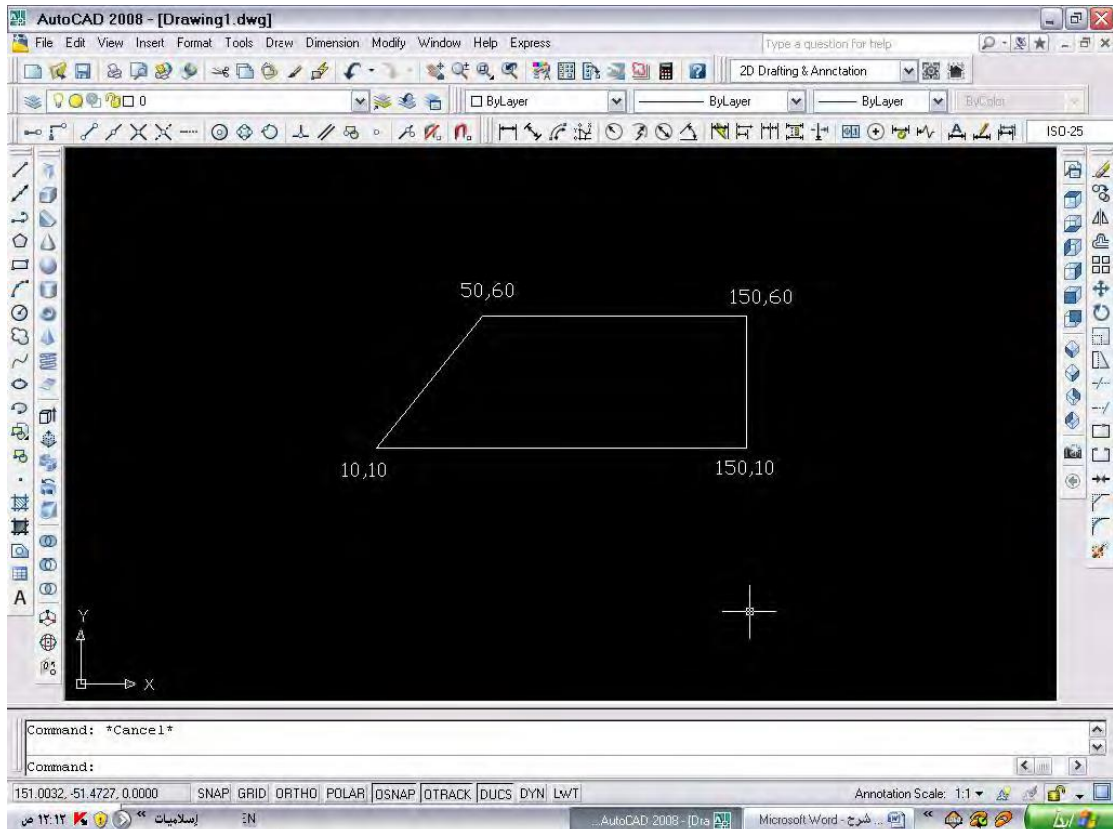


Fig. 2.5 The **AutoCAD** warning window

Example2 :- draw the next figure below



Sol.

Draw → line

Line specify first point :10,10

Specify next point or [undo]:150,10

Specify next point or [undo]:150,160

Specify next point or [undo]:50,60

Specify next point or [undo]:10,10

Esc

EXAMPLE (3)

Draw the next figure

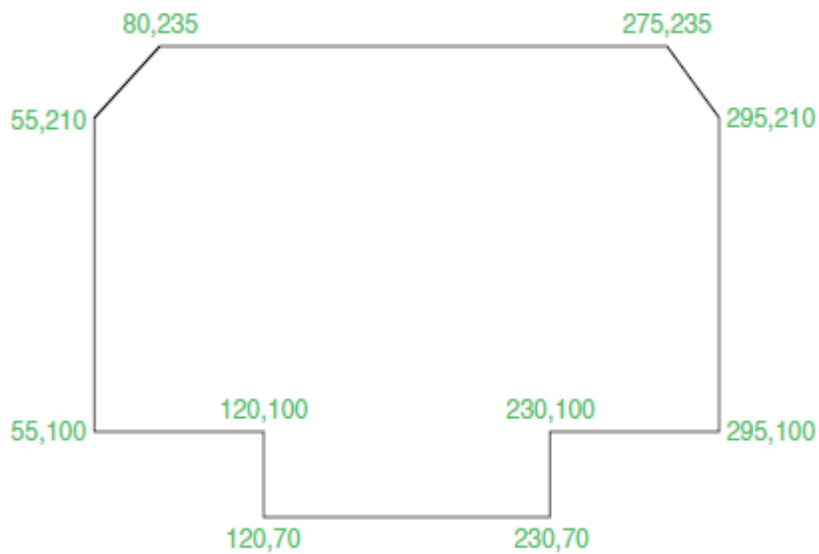


Fig 2.6 the figure how you should draw



1. *Left-click* on **New...** in the **File** drop-down menu and from the **Select template** dialog which appears *double-click* on **acadiso.dwt**.
2. *Left-click* on the **Line** tool icon and *enter* figures as follows at each prompt of the command line sequence:
Command: _line Specify first point: 80,235
Specify next point or [Undo]: 275,235
Specify next point or [Undo]: 295,210
Specify next point or [Close/Undo]: 295,100
Specify next point or [Close/Undo]: 230,100
Specify next point or [Close/Undo]: 230,70
Specify next point or [Close/Undo]: 120,70
Specify next point or [Close/Undo]: 120,100
Specify next point or [Close/Undo]: 55,100
Specify next point or [Close/Undo]: 55,210
Specify next point or [Close/Undo]: enter c (Close)

The result is as shown in Fig. 2.6.

2.the Relative way

Draw the next figure

_Draw ->line

Line specify first point:10,10

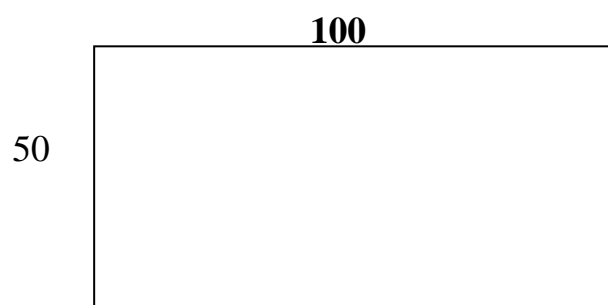
Specify next point or [undo]:@100,10

Specify next point or [undo]:@0,50

Specify next point or [undo]:@-100,0

Specify next point or [undo]:@0,-50

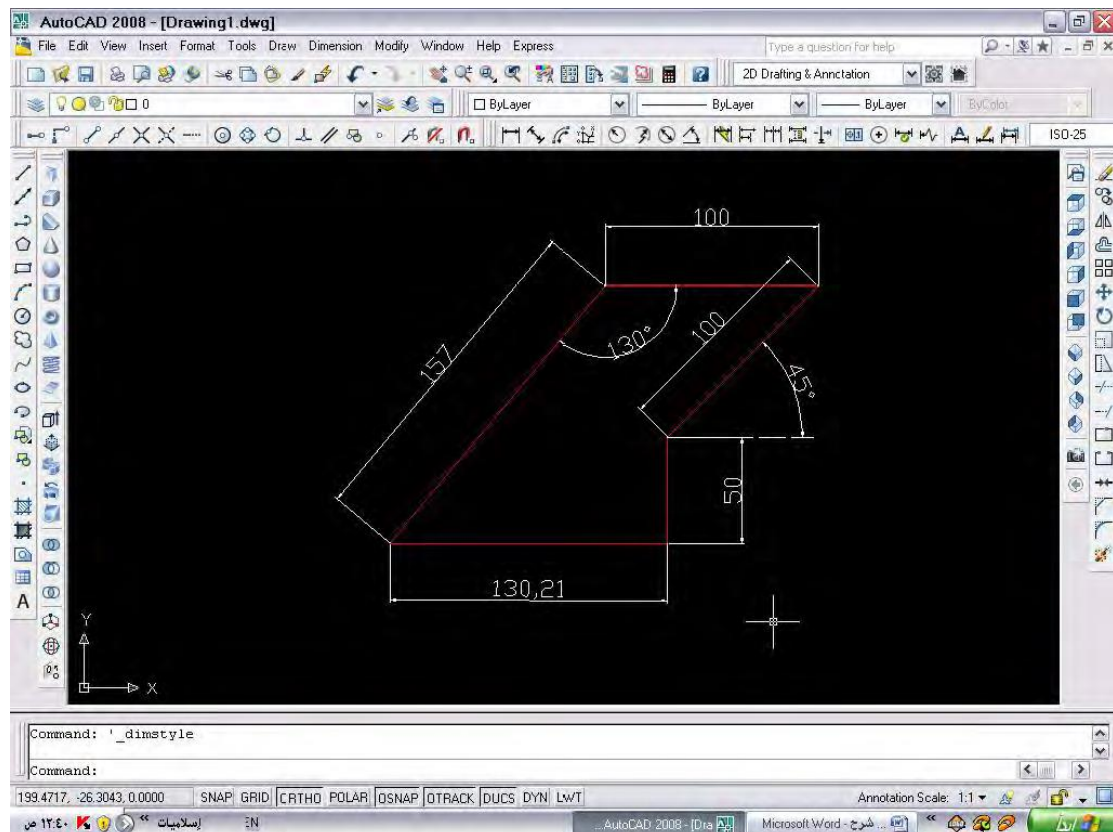
Esc



3.lines and angles

When you have to draw line on specific angle you take the distance of the line and the angle @distance<angle

Example draw the next figure



Draw→line

Line specify first point :0,0

Specify next point or [undo]:@130<0

Specify next point or [undo]:@50<90

Specify next point or [undo]:@100<45

Specify next point or [undo]:@100<180

Specify next point or [undo]:@157<-130