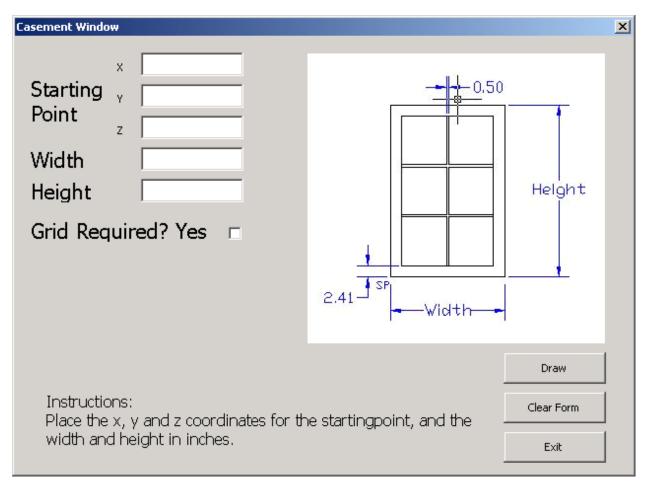
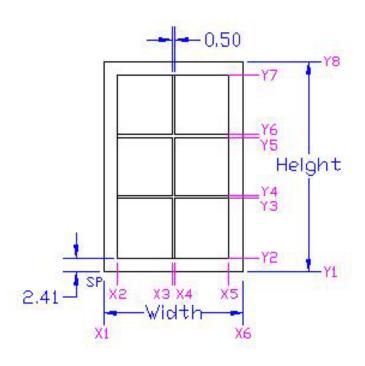
Window

The Form





```
X6 = X1 + Width
Sub casement_window()
                                                                          X5 = X6 - 2.41
                                                                          Y1 = txtStartingpointY
'define the starting and centerpoint arrays, width, height and radius
                                                                          Y2 = Y1 + 2.41
                                                                          Y3 = Y2 + Space
  Dim objLine As AcadLine
                                                                          Y4 = Y3 + 0.5
                                                                          Y5 = Y4 + Space
  Dim P1(0 To 2) As Double
                                                                          Y6 = Y5 + 0.5
  Dim P2(0 To 2) As Double
                                                                          Y7 = Y6 + Space
  Dim P3(0 To 2) As Double
                                                                          Y8 = Y7 + 2.41
  Dim P4(0 To 2) As Double
                                                                          Z1 = txtStartingpointZ
  Dim P5(0 To 2) As Double
  Dim P6(0 To 2) As Double
                                                                        'Point assignment
  Dim P7(0 To 2) As Double
  Dim P8(0 To 2) As Double
                                                                          P1(0) = X1
  Dim P9(0 To 2) As Double
                                                                          P1(1) = Y1
  Dim P10(0 To 2) As Double
                                                                          P1(2) = Z1
  Dim P11(0 To 2) As Double
                                                                          P2(0) = X6
  Dim P12(0 To 2) As Double
                                                                          P2(1) = Y1
  Dim P13(0 To 2) As Double
                                                                          P2(2) = Z1
  Dim P14(0 To 2) As Double
                                                                          P3(0) = X2
  Dim P15(0 To 2) As Double
                                                                          P3(1) = Y2
  Dim P16(0 To 2) As Double
                                                                          P3(2) = Z1
  Dim P17(0 To 2) As Double
                                                                          P4(0) = X3
  Dim P18(0 To 2) As Double
                                                                          P4(1) = Y2
  Dim P19(0 To 2) As Double
                                                                          P4(2) = Z1

P5(0) = X4
  Dim P20(0 To 2) As Double
  Dim P21(0 To 2) As Double
                                                                          P5(1) = Y2
  Dim P22(0 To 2) As Double
                                                                          P5(2) = Z1
  Dim P23(0 To 2) As Double
                                                                          P6(0) = X5
  Dim P24(0 To 2) As Double
                                                                          P6(1) = Y2
  Dim P25(0 To 2) As Double
                                                                          P6(2) = Z1
  Dim P26(0 To 2) As Double
                                                                          P7(0) = X2
  Dim P27(0 To 2) As Double
                                                                          P7(1) = Y3
  Dim P28(0 To 2) As Double
                                                                          P7(2) = Z1
                                                                          P8(0) = X3
  Dim Width As Double
                                                                          P8(1) = Y3
  Dim Height As Double
                                                                          P8(2) = Z1
                                                                          P9(0) = X4
  Dim X1 As Double
                                                                          P9(1) = Y3
  Dim X2 As Double
                                                                          P9(2) = Z1
  Dim X3 As Double
                                                                          P10(0) = X5
  Dim X4 As Double
                                                                          P10(1) = Y3
  Dim X5 As Double
                                                                          P10(2) = Z1
  Dim X6 As Double
                                                                          P11(0) = X2
                                                                          P11(1) = Y4
  Dim Y1 As Double
                                                                          P11(2) = Z1
  Dim Y2 As Double
                                                                          P12(0) = X3
  Dim Y3 As Double
                                                                          P12(1) = Y4
  Dim Y4 As Double
                                                                          P12(2) = Z1
  Dim Y5 As Double
                                                                          P13(0) = X4
  Dim Y6 As Double
                                                                          P13(1) = Y4
  Dim Y7 As Double
                                                                          P13(2) = Z1
  Dim Y8 As Double
                                                                          P14(0) = X5
                                                                          P14(1) = Y4
  Dim Space As Double
                                                                          P14(2) = Z1
  Dim ifValue2 As String
                                                                          P15(0) = X2
                                                                          P15(1) = Y5
'get input
                                                                          P15(2) = Z1
                                                                          P16(0) = X3
  Width = txtWidth
                                                                          P16(1) = Y5

P16(2) = Z1
  Height = txtHeight
  ifValue2 = chkGrid.Value
                                                                          P17(0) = X4
                                                                          P17(1) = Y5
' calculate space
                                                                          P17(2) = Z1
                                                                          P18(0) = X5
  Space = (\text{Height} - 2.41 - 2.41 - 0.5 - 0.5) / 3
                                                                          P18(1) = Y5
                                                                          P18(2) = Z1
' do math
                                                                          P19(0) = X2
                                                                          P19(1) = Y6
  X1 = txtStartingpointX
                                                                          P19(2) = Z1
  X2 = X1 + 2.41
                                                                          P20(0) = X3
  X3 = X1 + Width / 2 - 0.25
```

X4 = X1 + Width / 2 + 0.25

```
P20(1) = Y6
  P20(2) = Z1
  P21(0) = X4
  P21(1) = Y6
  P21(2) = Z1
  P22(0) = X5
  P22(1) = Y6
  P22(2) = Z1
  P23(0) = X2
  P23(1) = Y7
  P23(2) = Z1
  P24(0) = X3
  P24(1) = Y7
  P24(2) = Z1
  P25(0) = X4
  P25(1) = Y7
  P25(2) = Z1
  P26(0) = X5
  P26(1) = Y7
  P26(2) = Z1
  P27(0) = X1
  P27(1) = Y8
  P27(2) = Z1
  P28(0) = X6
  P28(1) = Y8
  P28(2) = Z1
'Draw the window
  Set objLine = ThisDrawing.ModelSpace.AddLine(P1, P2)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P2, P28)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P28, P27)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P27, P1)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P3, P6)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P6, P26)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P26, P23)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P23, P3)
'Draw the grid
If ifValue2 = "True" Then
  Set objLine = ThisDrawing.ModelSpace.AddLine(P4, P8)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P5, P9)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P7, P8)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P9, P10)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P11, P12)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P13, P14)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P12, P16)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P13, P17)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P15, P16)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P17, P18)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P19, P20)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P21, P22)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P20, P24)
  Set objLine = ThisDrawing.ModelSpace.AddLine(P21, P25)
End If
End Sub
Private Sub cmdClearform Click()
'clear the form
  txtStartingpointX = "0.00"
  txtStartingpointY = "0.00"
  txtStartingpointZ = "0.00"
  txtWidth = "0.00"
  txtHeight = "0.00"
End Sub
Private Sub cmdDraw_Click()
'draw the part
  casement_window
```

End Sub

End

End Sub

Private Sub cmdExit_Click()

'unload and end program

Unload Me