frmQuadratic - 1

```
Option Explicit
Private answer As CQuadratic

Private Sub cmdCompute_Click()
    Select Case txtA.Text
        Case Is = ""
            txtA.SetFocus
            MsgBox "Must enter value for a!", vbOKOnly, "Invalid entry!"
            Exit Sub
    End Select
    Select Case txtB.Text
        Case Is = ""
            txtB.SetFocus
            MsgBox "Must enter value for b!", vbOKOnly, "Invalid entry!"
            Exit Sub
    End Select
    Select Case txtC.Text
        Case Is = ""
            txtC.SetFocus
            MsgBox "Must enter value for c!", vbOKOnly, "Invalid entry!"
            Exit Sub
    End Select
    answer.A = txtA.Text
    answer.B = txtB.Text
    answer.C = txtC.Text
    txtA.Text = ""
    txtB.Text = ""
    txtC.Text = ""
    Select Case answer.discriminant
        Case Is < 0
            MsgBox "Discriminant is less than 0.", vbOKOnly, "No real solutions!"
            txtA.SetFocus
            picSolutions.Cls
            picSolutions.Print "The discriminant is ..."
            picSolutions.Print
            picSolutions.Print answer.discriminant
            Exit Sub
    End Select
    picSolutions.Cls
    picSolutions.Print answer.A & "x^2 + " & answer.B & "x + " & answer.C & " = 0"
    picSolutions.Print
    picSolutions.Print "x = " & answer.solution1 & " and x = " & answer.solution2
End Sub

Private Sub cmdExit_Click()
    End
End Sub

Private Sub Form_Load()
    Set answer = New CQuadratic
End Sub
```

CQuadratic - 1

```
Private m_A As String
Private m_B As String
Private m_C As String
Private m_sol1 As Single
Private m_sol2 As Single

Public Property Get A() As String
    A = m_A
End Property

Public Property Let A(ByVal vA As String)
    m_A = vA
End Property

Public Property Get B() As String
    B = m_B
End Property

Public Property Let B(ByVal vB As String)
    m_B = vB
End Property

Public Property Get C() As String
    C = m_C
End Property

Public Property Let C(ByVal vC As String)
    m_C = vC
End Property

Public Function discriminant() As Single
    discriminant = m_B ^ 2 - 4 * m_A * m_C
End Function
Public Function solution1() As Single
    solution1 = (-m_B + Sqr(m_B ^ 2 - 4 * m_A * m_C)) / (2 * m_A)
End Function

Public Function solution2() As Single
    solution2 = (-m_B - Sqr(m_B ^ 2 - 4 * m_A * m_C)) / (2 * m_A)
End Function
```