

frml - 1

Option Explicit

Dim vertexAX As Single
Dim vertexAY As Single
Dim vertexBX As Single
Dim vertexBY As Single

Dim x0 As Single
Dim y0 As Single
Dim x01 As Single
Dim y01 As Single
Dim x02 As Single
Dim y02 As Single
Dim x03 As Single
Dim y03 As Single
Dim Xx As Single
Dim Xy As Single
Dim Yx As Single
Dim Yy As Single
Dim x1 As Single
Dim y1 As Single
Dim x2 As Single
Dim y2 As Single

Dim xa As Single
Dim ya As Single
Dim xb As Single
Dim yb As Single
Dim xa2 As Single
Dim ya2 As Single
Dim xb2 As Single
Dim yb2 As Single
Dim xa2r As Single
Dim ya2r As Single
Dim xb2r As Single
Dim yb2r As Single

Dim xxa As Single
Dim yya As Single
Dim xxb As Single
Dim yyb As Single
Dim xxa2 As Single
Dim yya2 As Single
Dim xxb2 As Single
Dim yyb2 As Single

Dim calCanviarEixos As Single
Dim calCanviarEixos1 As Single
Dim calCanviarTamany1 As Single
Dim calCanviarTamany2 As Single
Dim calCanviarTamany3 As Single
Dim calCanviarTamany4 As Single

Dim resultatx As Integer
Dim resultaty As Integer
Dim resultatModul As Single
Dim resultatModul1 As Double
Dim resultatModul2 As Double
Dim resultatModul3 As Double

Dim u As Single
Dim t As Single
Dim t1 As Integer
Dim u1 As Integer

Dim X As Single

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Dim Y As Single

Dim r As Integer

Dim s As Integer

Dim f As Single

Dim f2 As Single

Dim f3 As Single

Dim i As Single

Private Sub Form_Load()

'AHORA SE CARGA LA ESCALA

Dim midax As Single

Dim miday As Single

Dim conversioTwipsMilimetres As Single

conversioTwipsMilimetres = 4 / 567

midax = picDibuix.Width * conversioTwipsMilimetres

miday = picDibuix.Height * conversioTwipsMilimetres

vertexAX = -midax / 2

vertexAY = miday / 2

vertexBX = midax / 2

vertexBY = -miday / 2

picDibuix.Scale (vertexAX, vertexAY)-(vertexBX, vertexBY)

Iniciar

End Sub

Sub Iniciar()

x0 = 0

y0 = 0

Xx = vertexAY

Yy = vertexBX

u1 = -0.5

t1 = -0.5

End Sub

Private Sub Form_Paint()

Pintar 'cada vegada ho pinta

End Sub

Sub Pintar()

picDibuix.Cls 'esborra

'Eix X

picDibuix.ForeColor = QBColor(0)

picDibuix.Line (Xx, y0)-(-Xx, y0)

picDibuix.CurrentX = Xx - 3 'es va a l'extrem del dibuix

picDibuix.Print "Eix X" 'pinta

For u = -50 To 50 Step 1

picDibuix.ForeColor = QBColor(0)

picDibuix.Line (u, 0.5 + y0)-(u, -0.5 + y0)

Next u

'Eix Y

picDibuix.ForeColor = QBColor(0)

picDibuix.Line (x0, -Yy)-(x0, Yy)

picDibuix.CurrentY = Yy

picDibuix.Print "Eix Y"

For t = -50 To 50 Step 1

picDibuix.ForeColor = QBColor(0)

picDibuix.Line (-0.5 + x0, t)-(0.5 + x0, t)

Next t

If r = 1 And s = 0 Then

restal

Else: r = 0 And s = 1

sumal

End If

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End Sub

```
Private Sub picDibuix_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single )
```

```
' ESTOS SON LOS VECTORES
```

```
If X > x01 + x1 - 1 + x0 And X < x01 + x1 + 1 + x0 Then
```

```
    If Y > y01 + y1 - 1 + y0 And Y < y01 + y1 + 1 + y0 Then
```

```
        calCanviarTamany1 = 1
```

```
    End If
```

```
End If
```

```
If X > x01 + x2 - 1 + x0 And X < x01 + x2 + 1 + x0 Then
```

```
    If Y > y01 + y2 + y0 - 1 And Y < y01 + y2 + 1 + y0 Then
```

```
        calCanviarTamany2 = 1
```

```
    End If
```

```
End If
```

```
If X > x02 + x1 - 1 + x0 And X < x02 + x1 + 1 + x0 Then
```

```
    If Y > y02 + y1 - 1 + y0 And Y < y02 + y1 + 1 + y0 Then
```

```
        calCanviarTamany3 = 1
```

```
    End If
```

```
End If
```

```
If X > x03 + x2 - 1 + x0 + x1 And X < x03 + x2 + 1 + x0 + x1 Then
```

```
    If Y > y03 + y2 + y0 - 1 + y1 And Y < y03 + y2 + 1 + y0 + y1 Then
```

```
        calCanviarTamany4 = 1
```

```
    End If
```

```
End If
```

```
'ESTOS SON LOS EJES
```

```
If X > x0 - 2 And X < x0 + 2 Then
```

```
    If Y > y0 - 2 And Y < y0 + 2 Then
```

```
        calCanviarEixos = 1
```

```
    End If
```

```
End If
```

```
If X > t1 - 2 And X < t1 + 2 Then
```

```
    If Y > u1 - 2 And Y < u1 + 2 Then
```

```
        calCanviarEixos1 = 1
```

```
    End If
```

```
End If
```

```
End Sub
```

```
Private Sub picDibuix_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single )
```

```
    If calCanviarTamany1 = 1 Then
```

```
        y1 = Y - y01 - y0
```

```
        x1 = X - x01 - x0
```

```
        Pintar
```

```
End If
```

```
If calCanviarTamany2 = 1 Then
```

```
        y2 = Y - y01 - y0
```

```
        x2 = X - x01 - x0
```

```
        Pintar
```

```
End If
```

```
If calCanviarTamany3 = 1 Then
```

```
        y1 = Y - y02 - y0
```

```
        x1 = X - x02 - x0
```

```
        Pintar
```

```
End If
```

```
If calCanviarTamany4 = 1 Then
```

```
        y2 = Y - y03 - y0 - y1
```

```
        x2 = X - x03 - x0 - x1
```

```
        Pintar
```

```
End If
```

```

If calCanviarEixos = 1 Then
    x0 = X
    y0 = Y
    Pintar

    If s = 1 And r = 0 Then
        resta
    End If
    If s = 0 And r = 1 Then
        suma
    Else
        End If
    End If
End If

```

```

If calCanviarEixos1 = 1 Then
    If X > 0 And Y > 0 Then
        u1 = Y - 0.5
        t1 = X - 0.5
        Pintar
        If s = 1 Then
            suma
        Else
            resta
        End If
    End If
End If

```

```

If X < 0 And Y < 0 Then
    u1 = Y - 0.5
    t1 = X - 0.5
    Pintar
    If s = 1 Then
        suma
    Else
        resta
    End If
End If

```

```

If X < 0 And Y > 0 Then
    u1 = Y - 0.5
    t1 = X - 0.5
    Pintar
    If s = 1 Then
        suma
    Else
        resta
    End If
End If

```

```

If X > 0 And Y < 0 Then
    u1 = Y - 0.5
    t1 = X - 0.5
    Pintar
    If s = 1 Then
        suma
    Else
        resta
    End If
End If

```

End If

```

        'mouse activat en 1
    MousePointer = 0
    If X > x0 + x1 - 1 And X < x0 + x1 + 1 Then
        If Y > y0 + y1 - 1 And Y < y0 + y1 + 1 Then
            MousePointer = 5
        End If
    End If
End If
'mouse activat en 1
MousePointer = 0
If X > x0 + x2 - 1 And X < x0 + x2 + 1 Then
    If Y > y0 + y2 - 1 And Y < y0 + y2 + 1 Then
        MousePointer = 5
    End If
End If

                'PARA ACTIVAR LOS VECTORES
MousePointer = 0
If X > x01 + x0 - 1 And X < x01 + 1 + x0 Then
    If Y > y01 - 1 + y0 And Y < y01 + 1 + y0 Then
        MousePointer = 5 'mouse activat en eixos
    End If
End If

    MousePointer = 0
If X > x02 + x0 - 1 And X < x02 + 1 + x0 Then
    If Y > y02 - 1 + y0 And Y < y02 + 1 + y0 Then
        MousePointer = 5 'mouse activat en eixos
    End If
End If
    MousePointer = 0
If X > x03 + x0 + x1 - 1 And X < x03 + 1 + x0 + x1 Then
    If Y > y03 + y1 - 1 + y0 And Y < y03 + 1 + y0 + y1 Then
        MousePointer = 5 'mouse activat en eixos
    End If
End If

' ??? esto desactiva el puntero en el extremo del vector
MousePointer = 0
If X > t1 - 2 And X < t1 + 2 Then
    If Y > u1 - 2 And Y < u1 + 2 Then
        MousePointer = 5 'mouse activat en eixos
    End If
End If

    If MousePointer <> 0 Then
        picDibuix.ForeColor = QBColor(4)
        picDibuix.CurrentX = x0
        picDibuix.CurrentY = y0
        picDibuix.Print "Clika i arrosega"
    Else
        picDibuix.ForeColor = QBColor(15)
        picDibuix.CurrentX = x0
        picDibuix.CurrentY = y0
        picDibuix.Print "Clika i arrosega"

    End If

End Sub

Private Sub picDibuix_MouseUp(Button As Integer, Shift As Integer, X As Single, Y As Single)
    calCanviarEixos = 0

```

```

calCanviarEixos1 = 0
calCanviarTamany1 = 0
calCanviarTamany2 = 0
calCanviarTamany3 = 0
calCanviarTamany4 = 0
End Sub
Private Sub cmdsuma_Click()
s = 1
r = 0
suma
Label6.Visible = True
Label7.Visible = True
Label5.Visible = True
txtModul.Visible = True
txtRX.Visible = True
txtRY.Visible = True
End Sub
Sub suma()
picDibuix.Cls
x1 = Val(txtX1.Text)
y1 = Val(txtY1.Text)
x2 = Val(txtX2.Text)
y2 = Val(txtY2.Text)
If x1 And y1 <> 0 Then
If x2 And y2 <> 0 Then
Label6.Visible = True
Label7.Visible = True
Label5.Visible = True
txtModul.Visible = True
txtRX.Visible = True
txtRY.Visible = True
End If
End If
Pintar
End Sub
Sub suma1()
picDibuix.ForeColor = QBColor(10)
picDibuix.Line (x0 + x02, y0 + y02)-(x1 + x0 + x02, y1 + y0 + y02)
picDibuix.ForeColor = QBColor(0)
picDibuix.CurrentX = x0 + x02 + x1 + 0.5
If x1 And y1 <> 0 Then
picDibuix.Print Val(x1 + x02); Val(y1 + y02)
End If
picDibuix.ForeColor = QBColor(10)
picDibuix.Line (x0 + x03 + x1, y0 + y03 + y1)-(x1 + x2 + x0 + x03, y1 + y2 + y0 + y03)
picDibuix.ForeColor = QBColor(0)
'picDibuix.CurrentY = x0 + x02 + y2 + y1 + 2
If x2 And y2 <> 0 Then
picDibuix.Print Val(x2 + x02); Val(y2 + y02)
End If
picDibuix.ForeColor = QBColor(12)
picDibuix.Line (x0 + x02, y0 + y02)-(x1 + x2 + x0 + x03, y1 + y2 + y0 + y03)

If x1 And y1 And x2 And y2 = 0 Then
txtX1.Text = "0"
txtY1.Text = "0"
txtX2.Text = "0"
txtY2.Text = "0"
Else
txtX1.Text = Val(x1 + x02)
txtY1.Text = Val(y1 + y02)
txtX2.Text = Val(x2 + x02)
txtY2.Text = Val(y2 + y02)
End If

```

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```
txtRX.Text = Val((x1 + y02) + (x1 + y02))
```

```
txtRY.Text = Val((y2 + y02) + (y1 + y02))
```

```
resultatx = x1 + x2
```

```
resultaty = y1 + y2
```

```
resultatModul = Sqr((resultatx * resultatx) + (resultaty * resultaty))
```

```
txtRX.Text = resultatx
```

```
txtRY.Text = resultaty
```

```
txtModul.Text = resultatModul
```

```
' 1º vector flecha
```

```
picDibuix.ForeColor = QBColor(6)
```

```
If resultatModul1 < 15 Then
```

```
    i = 1
```

```
    Else
```

```
    i = 2
```

```
    End If
```

```
resultatModul1 = Sqr((x1 * x1) + (y1 * y1)) - i
```

```
If x1 <> 0 Then
```

```
    f = Atn(y1 / x1)
```

```
    Else
```

```
        If y1 > 0 Then
```

```
            f = 3.141592 / 2
```

```
        Else
```

```
            f = -3.141592 / 2
```

```
        End If
```

```
    End If
```

```
    xxa = (resultatModul1) * Cos(f + (3 * 3.14159 / 180))
```

```
    yya = (resultatModul1) * Sin(f + (3 * 3.14159 / 180))
```

```
    xxb = (resultatModul1) * Cos(f - (3 * 3.14159 / 180))
```

```
    yyb = (resultatModul1) * Sin(f - (3 * 3.14159 / 180))
```

```
If x1 < 0 And y1 < 0 Then
```

```
    xxa = -xxa
```

```
    yya = -yya
```

```
    xxb = -xxb
```

```
    yyb = -yyb
```

```
    End If
```

```
If x2 > 0 And y2 < 0 Then
```

```
    xxa = xxa
```

```
    yya = yya
```

```
    xxb = xxb
```

```
    yyb = yyb
```

```
    End If
```

```
If x1 < 0 And y1 > 0 Then
```

```
    xxa = -xxa
```

```
    yya = -yya
```

```
    xxb = -xxb
```

```
    yyb = -yyb
```

```
    End If
```

```
picDibuix.Line (xxa + x0 + x02, yya + y0 + y02)-(x1 + x0 + x02, y1 + y0 + y02)
```

```
picDibuix.Line (xxb + x0 + x02, yyb + y0 + y02)-(x1 + x0 + x02, y1 + y0 + y02)
```

```
' 2º vector flecha
```

```
picDibuix.ForeColor = QBColor(6)
```

```
If resultatModul3 < 15 Then
```

```
    i = 1
```

```
    Else
```

```
    i = 2
```

```
    End If
```

```
resultatModul3 = Sqr((x2 * x2) + (y2 * y2)) - i
```

```
    If x2 <> 0 Then
```

```
        f3 = Atn(y2 / x2)
```

```

Else
If y2 > 0 Then
f3 = 3.141592 / 2
Else
f3 = -3.141592 / 2
End If
End If

xxa2 = (resultatModul3) * Cos(f3 + (3 * 3.14159 / 180))
yya2 = (resultatModul3) * Sin(f3 + (3 * 3.14159 / 180))
xxb2 = (resultatModul3) * Cos(f3 - (3 * 3.14159 / 180))
yyb2 = (resultatModul3) * Sin(f3 - (3 * 3.14159 / 180))
If x2 < 0 And y2 < 0 Then
    xxa2 = -xxa2
    yya2 = -yya2
    xxb2 = -xxb2
    yyb2 = -yyb2
End If
If x2 > 0 And y2 < 0 Then
    xxa2 = xxa2
    yya2 = yya2
    xxb2 = xxb2
    yyb2 = yyb2
End If
If x2 < 0 And y2 > 0 Then
    xxa2 = -xxa2
    yya2 = -yya2
    xxb2 = -xxb2
    yyb2 = -yyb2
End If

    picDibuix.Line (x1 + x0 + xxa2 + x03, y1 + y0 + yya2 + y03)-(x2 + x1 + x0 + x03, y2 + y1
+ y0 + y03)
    picDibuix.Line (x1 + x0 + xxb2 + x03, y1 + y0 + yyb2 + y03)-(x2 + x1 + x0 + x03, y2 + y1
+ y0 + y03)

End Sub
Private Sub cmdresta_Click()
    s = 0
    r = 1
Label6.Visible = True
Label7.Visible = True
Label5.Visible = True
txtModul.Visible = True
txtRX.Visible = True
txtRY.Visible = True
    resta
End Sub
Sub resta()
picDibuix.Cls

x1 = Val(txtX1.Text)
y1 = Val(txtY1.Text)
x2 = Val(txtX2.Text)
y2 = Val(txtY2.Text)
If x1 And y1 <> 0 Then
    If x2 And y2 <> 0 Then
Label6.Visible = True
Label7.Visible = True
Label5.Visible = True
txtModul.Visible = True
txtRX.Visible = True
txtRY.Visible = True
End If
End If

```

Pintar

End Sub

Sub resta1()

picDibuix.ForeColor = QBColor(10)

picDibuix.Line (0 + x01 + x0, 0 + y01 + y0)-(x1 - x01 + x0, y1 + y01 + y0)

picDibuix.ForeColor = QBColor(0)

picDibuix.CurrentX = x0 + x01 + x1 + 0.5

If x1 And y1 <> 0 Then

picDibuix.Print Val(x1 + x01); Val(y1 + y01)

End If

picDibuix.ForeColor = QBColor(10)

picDibuix.Line (0 + x01 + x0, 0 + y01 + y0)-(x2 - x01 + x0, y2 + y01 + y0)

picDibuix.ForeColor = QBColor(0)

'picDibuix.CurrentY = x0 - x01 + y2 + 2

If x2 And y2 <> 0 Then

picDibuix.Print Val(x2 + x01); Val(y2 + y01)

End If

picDibuix.ForeColor = QBColor(12)

picDibuix.Line (x2 + x01 + x0, y2 + y01 + y0)-(x1 + x01 + x0, y1 + y01 + y0)

If x1 And y1 And x2 And y2 = 0 Then

txtX1.Text = "0"

txtY1.Text = "0"

txtX2.Text = "0"

txtY2.Text = "0"

Else

txtX1.Text = Val(x1 + x02)

txtY1.Text = Val(y1 + y02)

txtX2.Text = Val(x2 + x02)

txtY2.Text = Val(y2 + y02)

End If

resultatx = x1 - x2

resultaty = y1 - y2

resultatModul = Sqr((resultatx * resultatx) + (resultaty * resultaty))

txtRX.Text = resultatx

txtRY.Text = resultaty

txtModul.Text = resultatModul

' 1º vector flecha

picDibuix.ForeColor = QBColor(6)

If resultatModul1 < 15 Then

i = 1

Else

i = 2

End If

resultatModul1 = Sqr((x1 * x1) + (y1 * y1)) - i

If x1 <> 0 Then

f = Atn(y1 / x1)

Else

If y1 > 0 Then

f = 3.141592 / 2

Else

f = -3.141592 / 2

End If

End If

xa = (resultatModul1) * Cos(f + (3 * 3.14159 / 180))

ya = (resultatModul1) * Sin(f + (3 * 3.14159 / 180))

xb = (resultatModul1) * Cos(f - (3 * 3.14159 / 180))

yb = (resultatModul1) * Sin(f - (3 * 3.14159 / 180))

If x1 < 0 And y1 < 0 Then

xa = -xa

ya = -ya

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```
        xb = -xb
        yb = -yb
    End If
If x2 > 0 And y2 < 0 Then
    xa = xa
    ya = ya
    xb = xb
    yb = yb
    End If
If x1 < 0 And y1 > 0 Then
    xa = -xa
    ya = -ya
    xb = -xb
    yb = -yb
    End If
picDibuix.Line (xa + x0, ya + y01 + y0)-(x1 + x01 + x0, y1 + y01 + y0)
picDibuix.Line (xb + x0, yb + y01 + y0)-(x1 + x01 + x0, y1 + y01 + y0)
'picDibuix.Line (xa + x0, yb + y0)-(xb + x0, yb + y0)

' 2º vector flecha
picDibuix.ForeColor = QBColor(6)
If resultatModul2 < 15 Then
    i = 1
Else
    i = 2
End If
resultatModul2 = Sqr((x2 * x2) + (y2 * y2)) - i
If x2 <> 0 Then
f2 = Atn(y2 / x2)
Else
f2 = 0
End If
xa2 = (resultatModul2) * Cos(f2 + (3 * 3.14159 / 180))
ya2 = (resultatModul2) * Sin(f2 + (3 * 3.14159 / 180))
xb2 = (resultatModul2) * Cos(f2 - (3 * 3.14159 / 180))
yb2 = (resultatModul2) * Sin(f2 - (3 * 3.14159 / 180))
If x2 < 0 And y2 < 0 Then
    xa2 = -xa2
    ya2 = -ya2
    xb2 = -xb2
    yb2 = -yb2
    End If
If x2 > 0 And y2 < 0 Then
    xa2 = xa2
    ya2 = ya2
    xb2 = xb2
    yb2 = yb2
    End If
If x2 < 0 And y2 > 0 Then
    xa2 = -xa2
    ya2 = -ya2
    xb2 = -xb2
    yb2 = -yb2
    End If
picDibuix.Line (xa2 + x0 + x01, ya2 + y0 + y01)-(x2 + x0 + x01, y2 + y0 + y01)
picDibuix.Line (xb2 + x0 + x01, yb2 + y0 + y01)-(x2 + x0 + x01, y2 + y0 + y01)

End Sub
Private Sub cmdEsborra_Click()
txtX1.Text = ""
txtY1.Text = ""
txtX2.Text = ""
txtY2.Text = ""
Label6.Visible = False
Label7.Visible = False
```

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```
Label5.Visible = False  
txtModul.Visible = False  
txtRX.Visible = False  
txtRY.Visible = False
```

```
x1 = Val(txtX1.Text)  
y1 = Val(txtY1.Text)  
x2 = Val(txtX2.Text)  
y2 = Val(txtY2.Text)  
picDibuix.Cls
```

```
    Iniciar  
    Pintar  
End Sub
```

```
Private Sub cmdEnd_Click()  
End
```

```
End Sub
```

```
Private Sub cmdCredits_Click()  
frm2.Visible = True  
End Sub
```

frm1 - 1

VERSION 5.00

```
Begin VB.Form frm1
    Appearance      = 0    'Flat
    BackColor       = &H00000000&
    Caption        = "Suma i Resta de Vectors"
    ClientHeight   = 8145
    ClientLeft     = 60
    ClientTop      = 345
    ClientWidth    = 11235
    ForeColor      = &H00000000&
    Icon           = (Icono)
    LinkTopic      = "Form1"
    ScaleHeight    = 8145
    ScaleWidth     = 11235
    StartUpPosition = 2    'CenterScreen
Begin VB.PictureBox picDibuix
    BackColor      = &H00FFFFFF&
    Height         = 5535
    Left           = 5280
    ScaleHeight    = 5475
    ScaleWidth     = 5475
    TabIndex      = 12
    Top           = 1680
    Width         = 5535
End
Begin VB.CommandButton cmdEsborra
    BackColor      = &H00C0FFFF&
    Caption        = "&Esborrar"
    BeginProperty Font
        Name        = "MS Sans Serif"
        Size        = 13.5
        Charset     = 0
        Weight      = 400
        Underline   = 0    'False
        Italic      = 0    'False
        Strikethrough = 0    'False
    EndProperty
    Height         = 615
    Left          = 600
    MaskColor     = &H000080FF&
    TabIndex      = 11
    Top          = 4200
    Width         = 4215
End
Begin VB.CommandButton cmdEnd
    BackColor      = &H0080FFFF&
    Caption        = "&Sortir"
    BeginProperty Font
        Name        = "MS Sans Serif"
        Size        = 13.5
        Charset     = 0
        Weight      = 400
        Underline   = 0    'False
        Italic      = 0    'False
        Strikethrough = 0    'False
    EndProperty
    Height         = 495
    Left          = 2160
    MaskColor     = &H000080FF&
    TabIndex      = 10
    Top          = 6840
    Width         = 975
End
Begin VB.TextBox txtRY
    Alignment      = 2    'Center
```

```
Appearance      = 0  'Flat
Enabled         = 0  'False
BeginProperty Font
  Name          = "MS Sans Serif"
  Size         = 13.5
  Charset      = 0
  Weight       = 400
  Underline    = 0  'False
  Italic       = 0  'False
  Strikethrough = 0  'False
EndProperty
Height         = 375
Left          = 3960
TabIndex     = 9
Top          = 5160
Visible      = 0  'False
Width        = 615
End
Begin VB.TextBox txtRX
  Alignment    = 2  'Center
  Appearance  = 0  'Flat
  Enabled     = 0  'False
  BeginProperty Font
    Name      = "MS Sans Serif"
    Size     = 13.5
    Charset  = 0
    Weight   = 400
    Underline = 0  'False
    Italic   = 0  'False
    Strikethrough = 0  'False
  EndProperty
  Height     = 375
  Left      = 3240
  TabIndex  = 8
  Top      = 5160
  Visible  = 0  'False
  Width    = 615
End
Begin VB.TextBox txtModul
  Alignment    = 2  'Center
  Appearance  = 0  'Flat
  Enabled     = 0  'False
  BeginProperty Font
    Name      = "MS Sans Serif"
    Size     = 13.5
    Charset  = 0
    Weight   = 400
    Underline = 0  'False
    Italic   = 0  'False
    Strikethrough = 0  'False
  EndProperty
  Height     = 375
  Left      = 3240
  TabIndex  = 7
  Top      = 5880
  Visible  = 0  'False
  Width    = 1335
End
Begin VB.TextBox txtY2
  Alignment    = 2  'Center
  Appearance  = 0  'Flat
  BeginProperty Font
    Name      = "MS Sans Serif"
    Size     = 13.5
    Charset  = 0
```

```
        Weight      = 400
        Underline   = 0 'False
        Italic      = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height      = 375
    Left        = 4680
    TabIndex    = 6
    Top         = 2520
    Width       = 495
End
Begin VB.TextBox txtY1
    Alignment    = 2 'Center
    Appearance   = 0 'Flat
    BeginProperty Font
        Name      = "MS Sans Serif"
        Size      = 13.5
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height      = 375
    Left        = 4680
    TabIndex    = 5
    Top         = 1800
    Width       = 495
End
Begin VB.CommandButton cmdResta
    BackColor    = &H00C0FFFF&
    Caption      = "&Resta"
    BeginProperty Font
        Name      = "MS Sans Serif"
        Size      = 13.5
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height      = 495
    Left        = 2880
    MaskColor   = &H000080FF&
    TabIndex    = 4
    Top         = 3240
    Width       = 1935
End
Begin VB.CommandButton cmdSuma
    BackColor    = &H00C0FFFF&
    Caption      = "&Suma"
    BeginProperty Font
        Name      = "MS Sans Serif"
        Size      = 13.5
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height      = 495
    Left        = 600
    MaskColor   = &H0000FFFF&
    TabIndex    = 3
    Top         = 3240
```

```
Width = 1935
End
Begin VB.TextBox txtX2
Alignment = 2 'Center
Appearance = 0 'Flat
BeginProperty Font
Name = "MS Sans Serif"
Size = 13.5
Charset = 0
Weight = 400
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4080
TabIndex = 2
Top = 2520
Width = 495
End
Begin VB.TextBox txtX1
Alignment = 2 'Center
Appearance = 0 'Flat
BeginProperty Font
Name = "MS Sans Serif"
Size = 13.5
Charset = 0
Weight = 400
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4080
TabIndex = 1
Top = 1800
Width = 495
End
Begin VB.CommandButton cmdCredits
BackColor = &H00C0FFFF&
Caption = "&Crédits"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 400
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 315
Left = 6600
MaskColor = &H000080FF&
TabIndex = 0
Top = 7440
Width = 3375
End
Begin VB.Label Label9
Alignment = 2 'Center
BackColor = &H00000000&
Caption = <...>
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
```

```

        Weight      = 400
        Underline   = 0 'False
        Italic      = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor      = &H00FFFFFF&
    Height         = 735
    Left           = 240
    TabIndex       = 21
    Top            = 720
    Width          = 10695
End
Begin VB.Label Label8
    Alignment      = 2 'Center
    AutoSize       = -1 'True
    BackColor      = &H00000000&
    Caption        = "Operacions amb vectors "
    BeginProperty Font
        Name        = "Georgia"
        Size        = 24
        Charset     = 0
        Weight      = 700
        Underline   = 0 'False
        Italic      = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor      = &H0000FFFF&
    Height         = 570
    Left           = 2220
    TabIndex       = 20
    Top            = 120
    Width          = 6075
End
Begin VB.Label Label7
    Alignment      = 1 'Right Justify
    AutoSize       = -1 'True
    BackColor      = &H00000000&
    Caption        = "Modul del vector"
    BeginProperty Font
        Name        = "MS Sans Serif"
        Size        = 13.5
        Charset     = 0
        Weight      = 400
        Underline   = 0 'False
        Italic      = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor      = &H00FFFFFF&
    Height         = 360
    Left           = 840
    TabIndex       = 19
    Top            = 5880
    Visible        = 0 'False
    Width          = 2100
End
Begin VB.Label Label6
    AutoSize       = -1 'True
    BackColor      = &H00000000&
    Caption        = "( , )"
    BeginProperty Font
        Name        = "Times New Roman"
        Size        = 18
        Charset     = 0
        Weight      = 400
        Underline   = 0 'False

```

```
        Italic           = 0 'False
        Strikethrough    = 0 'False
EndProperty
ForeColor           = &H00FFFFFF&
Height              = 405
Left                 = 3000
TabIndex            = 18
Top                  = 5160
Visible              = 0 'False
Width                = 1770
End
Begin VB.Label Label5
    Alignment         = 1 'Right Justify
    AutoSize          = -1 'True
    BackColor         = &H00000000&
    Caption           = "Vector Equivalent"
    BeginProperty Font
        Name           = "MS Sans Serif"
        Size           = 13.5
        Charset        = 0
        Weight         = 400
        Underline      = 0 'False
        Italic         = 0 'False
        Strikethrough  = 0 'False
    EndProperty
    ForeColor         = &H00FFFFFF&
    Height            = 360
    Left              = 690
    TabIndex          = 17
    Top               = 5160
    Visible           = 0 'False
    Width             = 2220
End
Begin VB.Label Label4
    AutoSize          = -1 'True
    BackColor         = &H00000000&
    Caption           = "( , )"
    BeginProperty Font
        Name           = "Times New Roman"
        Size           = 18
        Charset        = 0
        Weight         = 400
        Underline      = 0 'False
        Italic         = 0 'False
        Strikethrough  = 0 'False
    EndProperty
    ForeColor         = &H00FFFFFF&
    Height            = 405
    Left              = 3960
    TabIndex          = 16
    Top               = 2520
    Width             = 1320
End
Begin VB.Label Label3
    AutoSize          = -1 'True
    BackColor         = &H00000000&
    Caption           = "( , )"
    BeginProperty Font
        Name           = "Times New Roman"
        Size           = 18
        Charset        = 0
        Weight         = 400
        Underline      = 0 'False
        Italic         = 0 'False
        Strikethrough  = 0 'False
```

```
EndProperty
ForeColor      =   &H00FFFFFF&
Height        =   405
Left          =   3960
TabIndex      =   15
Top           =   1800
Width         =   1320
```

End

Begin VB.Label Label2

```
AutoSize      =   -1 'True
BackColor     =   &H00000000&
Caption       =   "Introdueix els Coomponents d'un altre vector"
```

BeginProperty Font

```
Name         =   "MS Sans Serif"
Size         =   9.75
Charset      =   0
Weight       =   400
Underline    =   0 'False
Italic       =   0 'False
Strikethrough = 0 'False
```

EndProperty

```
ForeColor      =   &H00FFFFFF&
Height        =   240
Left          =   0
TabIndex      =   14
Top           =   2520
Width         =   3930
```

End

Begin VB.Label Label1

```
Alignment     =   1 'Right Justify
AutoSize      =   -1 'True
BackColor     =   &H00000000&
Caption       =   "Introdueix els Coomponents del vector"
```

BeginProperty Font

```
Name         =   "MS Sans Serif"
Size         =   9.75
Charset      =   0
Weight       =   400
Underline    =   0 'False
Italic       =   0 'False
Strikethrough = 0 'False
```

EndProperty

```
ForeColor      =   &H00FFFFFF&
Height        =   240
Left          =   330
TabIndex      =   13
Top           =   1920
Width         =   3405
```

End

End

frm2 - 1

```
Option Explicit
Dim X As Integer
Dim Y As Integer
Dim i As Integer
Dim A As Integer
Dim Z As Integer
```

```
Private Sub cmdEnd_Click()
Unload frm2
```

```
End Sub
```

```
Private Sub trm1_Timer()
```

```
    X = i + 1
    Y = 22 - i
    lbl1.Caption = Mid$("Yb@N The best ", X, Y) + Mid$("Yb@N The best ",
1, i)
    i = (i + 1) Mod 22
```

```
End Sub
```

```
Private Sub trm2_Timer()
```

```
    Dim X, Y As Integer

    X = (picCercle.Left + 50) Mod frm2.Width
    Y = (picCercle.Top + 50) Mod frm2.Height
```

```
    picCercle.Move X, Y
End Sub
```

```
Private Sub trm3_Timer()
```

```
    Dim A, Z As Integer

    A = (picPollo.Left + 50) Mod frm2.Width
    Z = (picPollo.Top + 2) Mod frm2.Height
    picPollo.Move A, Z
```

```
End Sub
```

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Begin VB.Form frm2

```
BackColor      = &H00808080&
Caption        = "Crédits"
ClientHeight   = 3195
ClientLeft     = 60
ClientTop      = 345
ClientWidth    = 4860
ForeColor      = &H00808080&
LinkTopic      = "Form2"
ScaleHeight    = 3195
ScaleWidth     = 4860
StartupPosition = 2 'CenterScreen
Visible        = 0 'False
```

Begin VB.Timer trm1

```
Interval       = 500
Left           = 30
Top            = 0
```

End

Begin VB.CommandButton cmdEnd

```
Caption        = "&Sortir"
BeginProperty Font
    Name        = "MS Sans Serif"
    Size        = 12
    Charset     = 0
    Weight      = 400
    Underline   = 0 'False
    Italic      = 0 'False
    Strikethrough = 0 'False
```

EndProperty

```
Height        = 450
Left          = 990
TabIndex      = 2
Top           = 2520
Width         = 2775
```

End

Begin VB.Timer trm2

```
Interval       = 5
Left           = 510
Top            = 0
```

End

Begin VB.PictureBox picCercle

```
Appearance     = 0 'Flat
AutoRedraw     = -1 'True
BackColor      = &H00808080&
BorderStyle    = 0 'None
FillColor      = &H00808080&
ForeColor      = &H00808080&
Height         = 375
Left           = 30
Picture        = (Mapa de bits)
ScaleHeight    = 375
ScaleWidth     = 375
TabIndex      = 1
Top            = 1560
Width          = 375
```

End

Begin VB.Timer trm3

```
Interval       = 10
Left           = 990
Top            = 0
```

End

Begin VB.PictureBox picPollo

```
Appearance     = 0 'Flat
AutoRedraw     = -1 'True
```

```
BackColor      = &H00808080&
BorderStyle    = 0 'None
FillColor      = &H00808080&
ForeColor      = &H00808080&
Height         = 375
Left           = 2190
Picture        = (Mapa de bits)
ScaleHeight    = 375
ScaleWidth     = 375
TabIndex       = 0
Top            = 120
Width          = 375
```

End

Begin VB.Label lbl1

```
Alignment      = 2 'Center
AutoSize       = -1 'True
BackColor      = &H00808080&
BeginProperty Font
    Name        = "MS Sans Serif"
    Size        = 18
    Charset     = 0
    Weight      = 400
    Underline   = 0 'False
    Italic      = 0 'False
    Strikethrough = 0 'False
```

EndProperty

```
ForeColor      = &H00FF0000&
Height         = 435
Left           = 2265
TabIndex       = 5
Top            = 1200
Width          = 105
```

End

Begin VB.Label Label1

```
Alignment      = 2 'Center
Appearance     = 0 'Flat
AutoSize       = -1 'True
BackColor      = &H00808080&
Caption        = "Aquet programa ha sigut elaborat per :"
```

BeginProperty Font

```
    Name        = "MS Sans Serif"
    Size        = 13.5
    Charset     = 0
    Weight      = 400
    Underline   = 0 'False
    Italic      = 0 'False
    Strikethrough = 0 'False
```

EndProperty

```
ForeColor      = &H00FFFFFF&
Height         = 360
Left           = 0
TabIndex       = 4
Top            = 600
Width          = 4845
```

End

Begin VB.Label Label2

```
Alignment      = 2 'Center
Appearance     = 0 'Flat
AutoSize       = -1 'True
BackColor      = &H00E0E0E0&
Caption        = "Sugerencias a : ibh1129@edu365.com"
```

BeginProperty Font

```
    Name        = "MS Sans Serif"
    Size        = 12
    Charset     = 0
```

frm2 - 3

Weight = 400
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False

EndProperty

ForeColor = &H80000008&

Height = 300

Left = 390

TabIndex = 3

Top = 2040

Width = 4155

End

End