

Sine Curve

```
using System;
using System.Drawing;
using System.Windows.Forms;

class SineCurve: Form
{
public static void Main()
{
Application.Run(new SineCurve());
}
public SineCurve()
{
Text = "Sine Curve";
ResizeRedraw = true;
}
protected override void OnPaint(PaintEventArgs pea)
{
DoPage(pea.Graphics,          ForeColor, ClientSize.Width,
ClientSize.Height);
}
protected void DoPage(Graphics grfx, Color clr, int cx, int
cy)
{
PointF[] aptf = new PointF[cx];

for (int i = 0; i < cx; i++) { aptf[i].X = i; aptf[i].Y = cy /
2 * (1 -(float) Math.Sin(i * 2 * Math.PI / (cx - 1))); }
grfx.DrawLine(new Pen(clr), aptf); } } [/csharp]
```