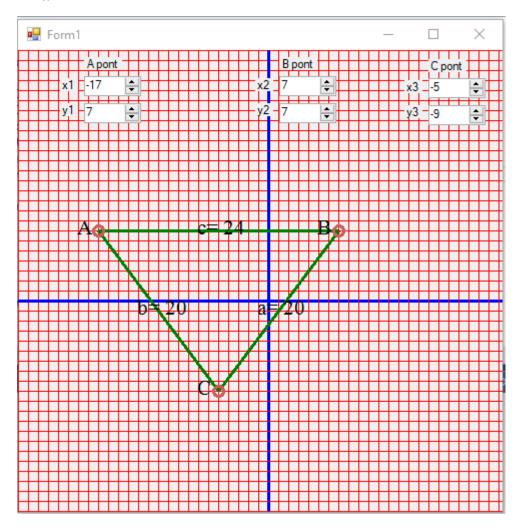
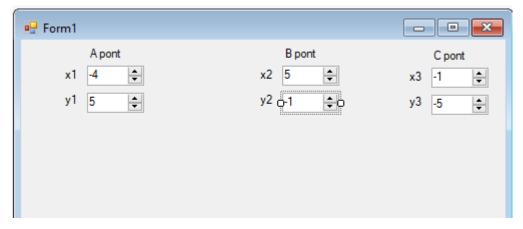
Készítsünk programot, amely ábrázol egy háromszöget a koordinátarendszerben a csúcspontok koordinátáinak ismeretében. Lehessen változtatni a pontok helyzetét és írja ki az oldalak hosszát is!

## Minta:



Megoldás: Az elemek tulajdonságait állítsuk be az alábbi táblázat szerint!



numericUpDown	Value	Maximum	Minimum	Name
numericUpDown1	-4	25	-25	a1
numericUpDown2	5	25	-25	a2
numericUpDown3	5	25	-25	b1
numericUpDown4	-1	25	-25	b2
numericUpDown5	-1	25	-25	c1
numericUpDown6	-5	25	-25	c2

```
Programkód:
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace szakasz
{
    public partial class Form1 : Form
        float x = 500, y = 500;
        float x1 = -4, y1 = 5, x2 = 6, y2 = -1, x3 = -1, y3 = -5, f1, f2;
        double a, b, c;
        string oldal = "";
        Pen toll = new Pen(Color.Red, 1);
        int i;
        private void b2_ValueChanged(object sender, EventArgs e)
            Invalidate();
            Update();
        }
        private void b1_ValueChanged(object sender, EventArgs e)
            Invalidate();
            Update();
        }
        private void a1_ValueChanged(object sender, EventArgs e)
            Invalidate();
            Update();
        }
        private void a2_ValueChanged(object sender, EventArgs e)
            Invalidate();
            Update();
        }
        private void c1_ValueChanged(object sender, EventArgs e)
            Invalidate();
            Update();
private void c2_ValueChanged(object sender, EventArgs e)
            Invalidate();
            Update();
        }
        public Form1()
            InitializeComponent();
        }
```

```
private void Form1 Paint(object sender, PaintEventArgs e)
            Graphics g = this.CreateGraphics();
            for (i = 0; i < x; i += 10)
                if(i==250)
                {
                    toll = new Pen(Color.Blue, 3);
                }
                else
                {
                    toll = new Pen(Color.Red, 1);
                g.DrawLine(toll, i, 0, i, y);
                g.DrawLine(toll, 0, i, x, i);
            x1 = Convert.ToInt32(a1.Value);
            y1 = Convert.ToInt32(a2.Value);
            x2 = Convert.ToInt32(b1.Value);
            y2 = Convert.ToInt32(b2.Value);
            x3 = Convert.ToInt32(c1.Value);
            y3 = Convert.ToInt32(c2.Value);
            toll = new Pen(Color.Green, 3);
            g.DrawLine(toll, 250+x1*10, 250-y1*10, 250 + x2 * 10, 250 - y2 * 10);
            g.DrawLine(toll, 250 + x1 * 10, 250 - y1 * 10, 250 + x3 * 10, 250 - y3 * 10);
            g.DrawLine(toll, 250 + x2 * 10, 250 - y2 * 10, 250 + x3 * 10, 250 - y3 * 10);
            toll = new Pen(Color.IndianRed,3);
            g.DrawEllipse(toll, 250 + x1 * 10 -5, 250 - y1 * 10-5 , 10, 10);
            g.DrawEllipse(toll, 250 + x2 * 10 - 5, 250 - y2 * 10 - 5, 10, 10);
g.DrawEllipse(toll, 250 + x3 * 10 - 5, 250 - y3 * 10 - 5, 10, 10);
            SolidBrush ecset = new SolidBrush(Color.Black);
            oldal = "";
            f1 = (x1 + x2) / 2; f2 = (y1 + y2) / 2;
            c = Math.Sqrt((x2 - x1) * (x2 - x1) + (y2 - y1) * (y2 - y1));
            c = Math.Round(c, 2);
            oldal += "c= " + Convert.ToString(c);
g.DrawString(oldal, new Font("Times New Roman", 16), ecset, 250 + f1 * 10 - 25, 250 - f2 * 10 - 15);
            oldal = "";
            f1 = (x1 + x3) / 2; f2 = (y1 + y3) / 2;
            b = Math.Sqrt((x3 - x1) * (x3 - x1) + (y3 - y1) * (y3 - y1));
            b = Math.Round(b, 2);
            oldal += "b= " + Convert.ToString(b);
g.DrawString(oldal, new Font("Times New Roman", 16), ecset, 250 + f1 * 10 - 25, 250 - f2 * 10 - 15);
             oldal = "";
            f1 = (x2 + x3) / 2; f2 = (y2 + y3) / 2;
            a = Math.Sqrt((x3 - x2) * (x3 - x2) + (y3 - y2) * (y3 - y2));
            a = Math.Round(a, 2);
            oldal += "a= " + Convert.ToString(a);
g.DrawString(oldal, new Font("Times New Roman", 16), ecset, 250 + f1 * 10 - 25, 250 - f2 * 10 - 15);
g.DrawString("A",new Font ("Times New Roman", 16),ecset, 250 + x1 * 10 - 25, 250 - y1 * 10 - 15);
g.DrawString("B", new Font("Times New Roman", 16), ecset, 250 + x2 * 10 - 25, 250 - y2 * 10 - 15);
g.DrawString("C", new Font("Times New Roman", 16), ecset, 250 + x3 * 10 - 25, 250 - y3 * 10 - 15);
    }
}
```