Oefening 5.5

Polygon Class

Namespace: System.Windows.Shapes

https://msdn.microsoft.com/en-us/library/system.windows.shapes.polygon(v=vs.110).aspx

```csharp
public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();
        }

        private void drawButton_Click(object sender, RoutedEventArgs e)
        {
            SolidColorBrush brush = new SolidColorBrush(Colors.Black);

            DrawTriangle2(paperCanvas, brush, 100, 10, 40, 40);
            DrawTriangle2(paperCanvas, brush, 10, 100, 20, 60);
        }

        private void DrawTriangle2(Canvas drawingArea,
                                   SolidColorBrush brushToUse,
                                   double xPlace,
                                   double yPlace,
                                   double width,
                                   double height)
        {
            double rightCornerX, rightCornerY;
            rightCornerX = xPlace + width;
            rightCornerY = yPlace + height;

            DrawPolygon(drawingArea, brushToUse,
                        xPlace, yPlace,
                        xPlace, rightCornerY,
                        rightCornerX, rightCornerY);
        }

        private void DrawPolygon(Canvas drawingArea,
                                 SolidColorBrush brushToUse,
                                 double X1, double Y1,
                                 double X2, double Y2,
                                 double X3, double Y3)
        {
            Polygon polygon = new Polygon();
            polygon.Stroke = brushToUse;
            polygon.StrokeThickness = 1;
            polygon.Points.Add(new Point(X1, Y1));
            polygon.Points.Add(new Point(X2, Y2));
            polygon.Points.Add(new Point(X3, Y3));
            drawingArea.Children.Add(polygon);
        }
    }
```

```xml
<Window x:Class="Oef5_5_Polygon.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="Polygon Method" Height="245" Width="300">
    <Grid>
        <Button Content="Draw" HorizontalAlignment="Left"
                Margin="10,10,0,0" VerticalAlignment="Top"
                Width="75" Name="drawButton" Click="drawButton_Click" Height="19"/>
        <Canvas HorizontalAlignment="Left" Height="180"
                Margin="90,10,0,0" VerticalAlignment="Top" Width="190"
                Name="paperCanvas" Background="LightGray"/>
    </Grid>
</Window>
```