

```
In[154]:= (* pracujeme s BSpline bází *)
```

```
In[155]:= knots = {0, 0, 0, 0, 0.1, 0.3, 0.5, 0.5, 0.5, 0.5, 0.6, 0.6, 0.9, 1, 1, 1, 1}
```

```
Out[155]= {0, 0, 0, 0, 0.1, 0.3, 0.5, 0.5, 0.5, 0.5, 0.6, 0.6, 0.9, 1, 1, 1, 1}
```

```
In[156]:= p = 3
```

```
Out[156]= 3
```

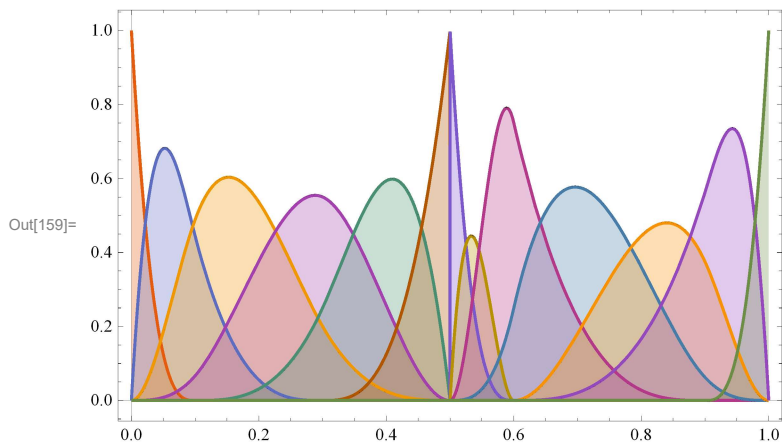
```
In[157]:= m = Length[knots] - 1
```

```
Out[157]= 16
```

```
In[158]:= n = m - p - 1
```

```
Out[158]= 12
```

```
In[159]:= Plot[Evaluate[Table[BSplineBasis[{p, knots}, i, t], {i, 0, n}]],  
             {t, First[knots], Last[knots]}, Filling -> Axis,  
             PlotRange -> Full, PlotTheme -> "Scientific"]
```



```
In[160]:= P = Table[{Cos[i * Pi / n], Sin[i * Pi / n]}, {i, 0, n}];
```

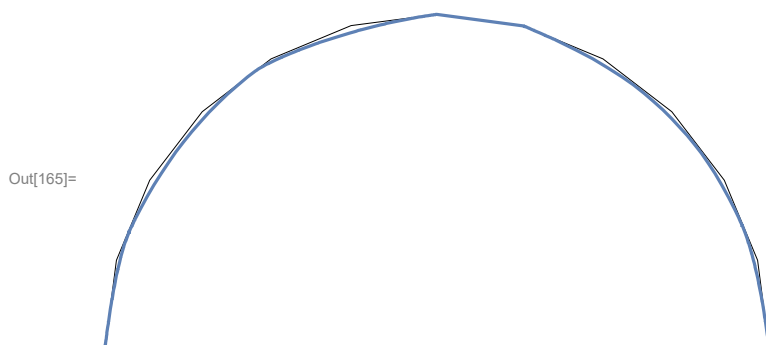
```
In[161]:= sh[i_] := i + 1;
```

```
In[162]:= pl1 = Graphics[Line[P]];
```

```
In[163]:= c = Sum[P[[sh[i]]] * BSplineBasis[{p, knots}, i, t], {i, 0, n}];
```

```
In[164]:= pl2 = ParametricPlot[c, {t, 0, 1}];
```

```
In[165]:= Show[pl1, pl2]
```



```
In[166]:=
```