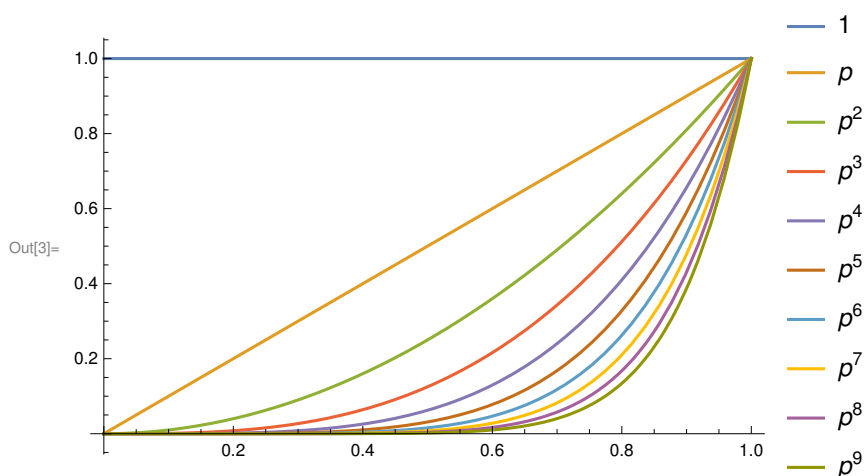


Comparison between the two bases for polynomials

```
In[1]:= n = 9
pbase = Table[p^i, {i, 0, n}]
Plot[pbase, {p, 0, 1}, PlotLegends → "Expressions"]
basef[i_, m_, p_] = p^i (1 - p)^(m - i);
base = Table[basef[i, n, p], {i, 0, n}]
basescale = Table[Binomial[n, i]*basef[i, n, p], {i, 0, n}]
Plot[basescale, {p, 0, 1}, PlotLegends → "Expressions", PlotRange → All]
Plot[base, {p, 0, 1}, PlotLegends → "Expressions"]
```

Out[1]= 9

Out[2]= $\{1, p, p^2, p^3, p^4, p^5, p^6, p^7, p^8, p^9\}$



Out[5]= $\{(1-p)^9, (1-p)^8 p, (1-p)^7 p^2, (1-p)^6 p^3, (1-p)^5 p^4, (1-p)^4 p^5, (1-p)^3 p^6, (1-p)^2 p^7, (1-p) p^8, p^9\}$

Out[6]= $\{(1-p)^9, 9(1-p)^8 p, 36(1-p)^7 p^2, 84(1-p)^6 p^3, 126(1-p)^5 p^4, 126(1-p)^4 p^5, 84(1-p)^3 p^6, 36(1-p)^2 p^7, 9(1-p) p^8, p^9\}$

