Problem 2.21

Estimate the multiplicity function to the two-Einstein-solid function

In[194]:=

```
Clear[f, n, z]
```

In[195]:=

```
f[z_, n_] := (4 z (1 - z))^n
```

In[239]:=

```
Plot[Evaluate[Table[f[z, n], {n, {10, 100, 1000}}]], {z, 0, 1},
 PlotRange → {0, 1}, PlotLegends → {"10", "100", "1000", "10000"}]
```

General : 0.0000204286 ^{100} is too small to represent as a normalized machine number; precision may be lost.

General : 0.0000204286 ^{1000} is too small to represent as a normalized machine number; precision may be lost.

Out[239]=