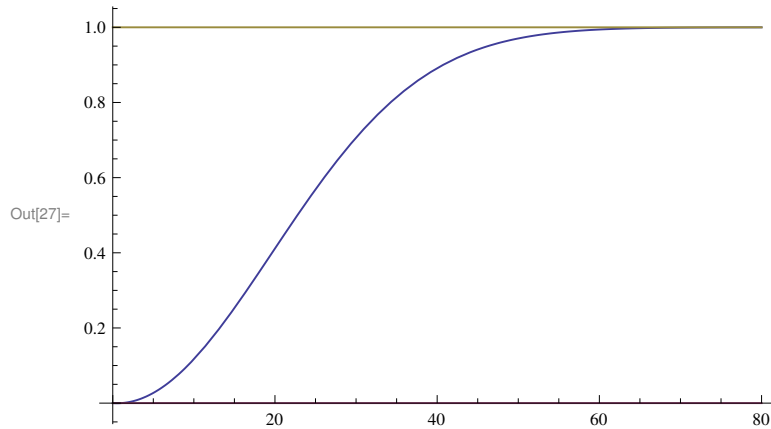
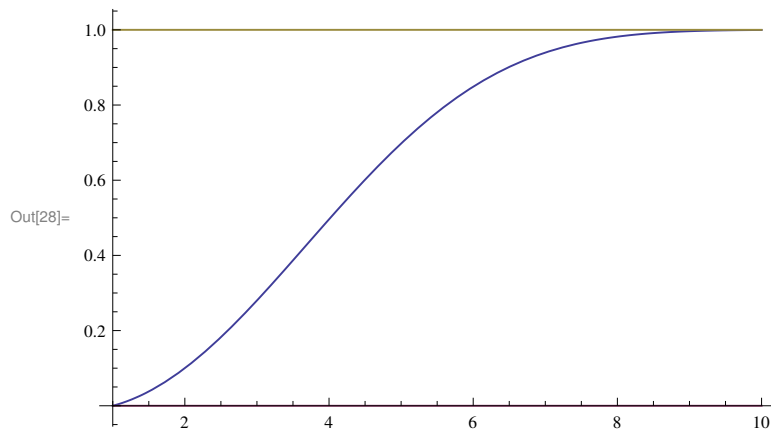


Probability of two or more people having a birthday on the same day in a group of n people

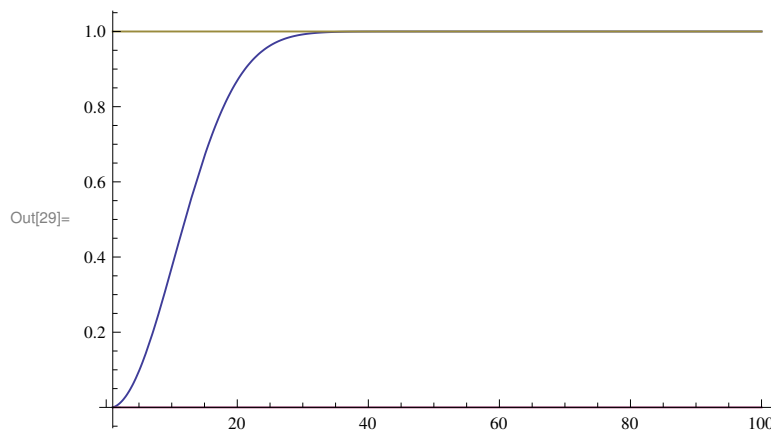
```
In[27]:= Plot[{1 -  $\frac{365!}{365^n (365 - n)!}$ , 0, 1}, {n, 0, 80}, PlotTheme -> "Classic"]
```



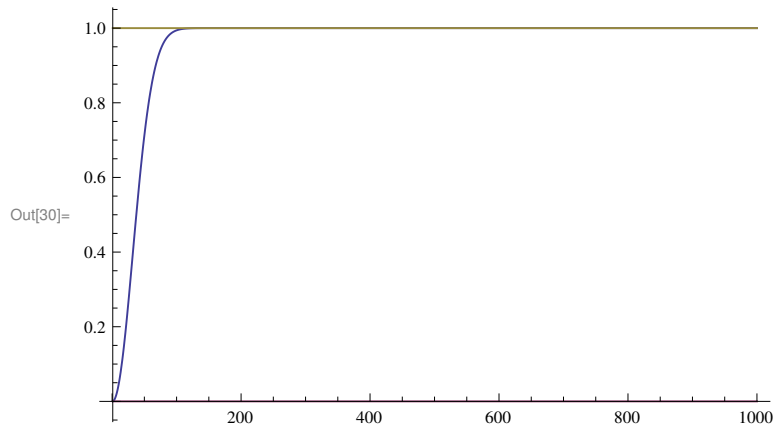
```
In[28]:= B = 10; Plot[{1 - B! / (B^n (B - n)!), 0, 1}, {n, 1, B}, AxesOrigin -> {1, 0}, PlotTheme -> "Classic"]
```



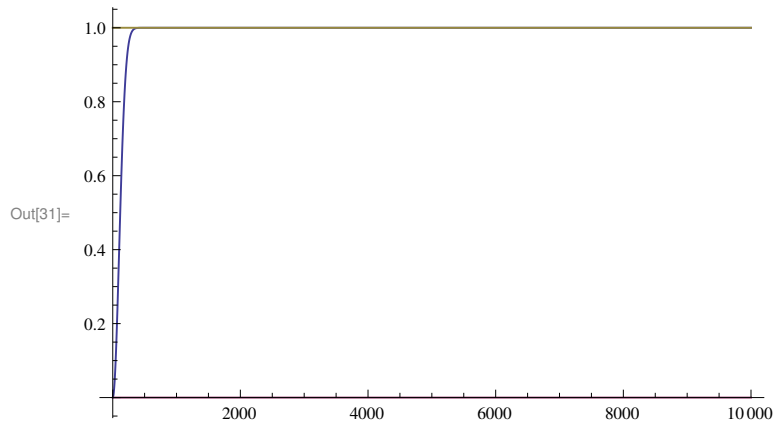
```
In[29]:= B = 100; Plot[{1 - B! / (B^n (B - n)!), 0, 1}, {n, 1, B}, AxesOrigin -> {1, 0}, PlotTheme -> "Classic"]
```



```
In[30]:= B = 1000; Plot[{1 - B! / (B^n (B - n)!), 0, 1},
  {n, 1, B}, AxesOrigin -> {1, 0}, PlotTheme -> "Classic"]
```



```
In[31]:= B = 10 000; Plot[{1 - B! / (B^n (B - n)!), 0, 1},
  {n, 1, B}, AxesOrigin -> {1, 0}, PlotTheme -> "Classic"]
```



```
In[33]:= B = 1 000 000; Plot[{1 - B! / (B^n (B - n)!), 0, 1},
  {n, 1, B}, AxesOrigin -> {1, 0}, PlotTheme -> "Classic"]
```

