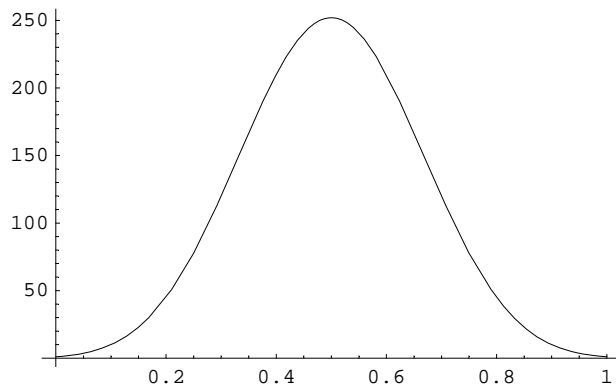


Plot of eq. B² eq. 1.15, used in Example 4.1

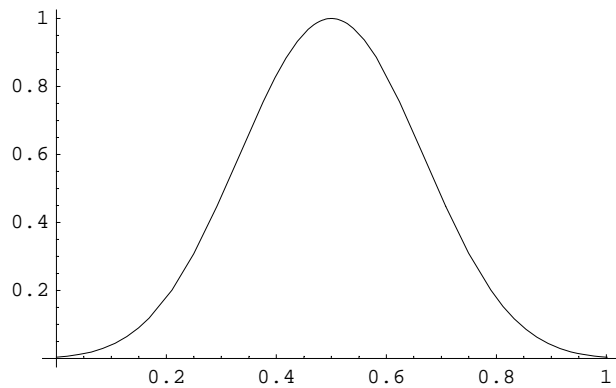
This plots the number of combinations of "n take r" objects. The horizontal axis is r/n , so normalized to run from 0 to 1, while the maximum of the curve is normalized to 1 by dividing by the largest value of "n take r", namely "n take n/2".

```
In[16]:= Plot[Binomial[n, n*r] /. n -> 10, {r, 0, 1}]
```



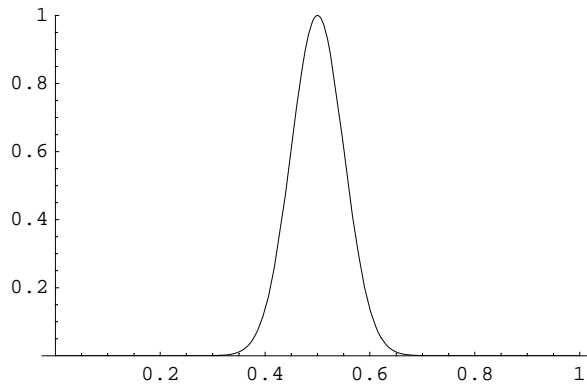
```
Out[16]= - Graphics -
```

```
In[17]:= p10 = Plot[Binomial[n, n*r] / Binomial[n, n/2] /. n -> 10, {r, 0, 1}]
```



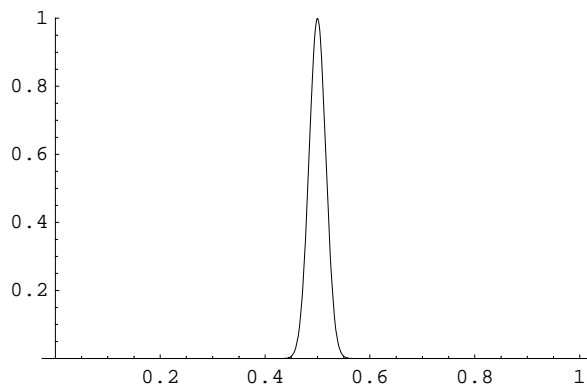
```
Out[17]= - Graphics -
```

```
In[18]:= p100 = Plot[Binomial[n, n*r] / Binomial[n, n/2] /. n -> 100, {r, 0, 1}, PlotRange -> {0, 1}]
```



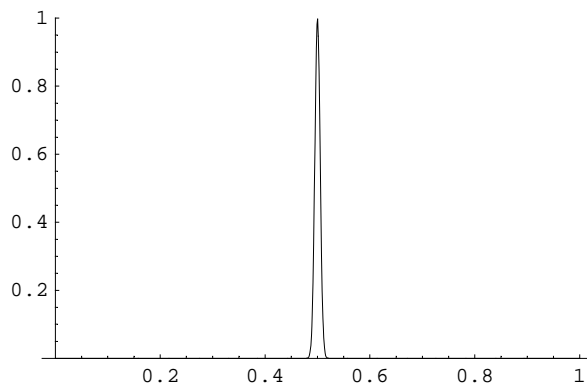
```
Out[18]= - Graphics -
```

```
In[19]:= p1000 = Plot[Binomial[n, n*r] / Binomial[n, n/2] /. n -> 1000, {r, 0, 1}, PlotRange -> {0, 1}]
```



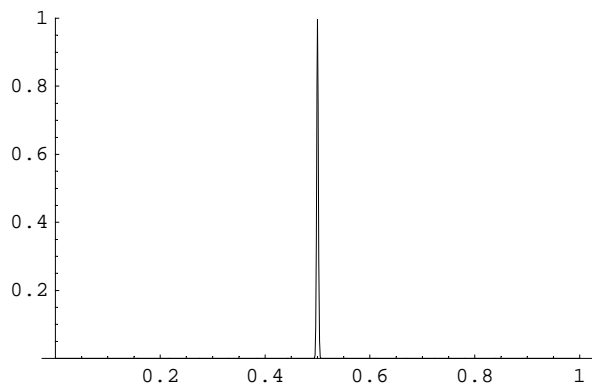
```
Out[19]= - Graphics -
```

```
In[20]:= p10000 = Plot[Binomial[n, n*r] / Binomial[n, n/2] /. n -> 10000, {r, 0, 1}, PlotRange -> {0, 1}]
```



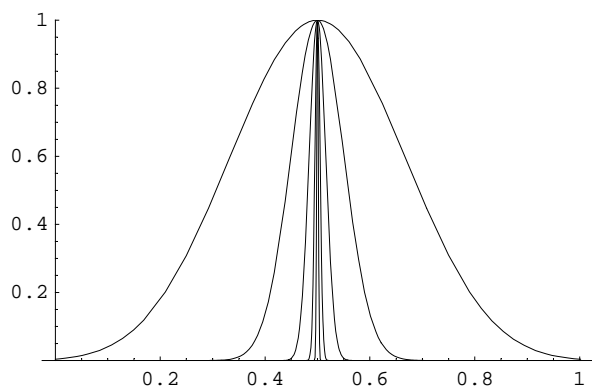
```
Out[20]= - Graphics -
```

```
In[21]:= p100000 =  
Plot[Binomial[n, n*r] / Binomial[n, n/2] /. n -> 100000, {r, 0, 1}, PlotRange -> {0, 1}]
```



```
Out[21]= - Graphics -
```

```
In[23]:= Show[p10, p100, p1000, p10000, p100000, PlotRange -> {0, 1}]
```



```
Out[23]= - Graphics -
```